INTERNATIONAL IVY

SUMMER ENRICHMENT PROGRAMS

June 24 - August 16, 2019
Full-day or half-day
Weekly Sessions

Ages 3 - 15
Over 60 classes
13 locations across NJ

STEAM CAMP

S cience
T ech
E ngineering
A rts
M ath

Call 908-899-1338 Email info@iisummer.com Visit www.iisummer.com

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INTERNATIONAL IVY - PHILOSOPHY AND GOALS

EXERCISE CREATIVITY

We design our classes to be creative. Kids design video games, devise the winning robots, tinker with the engineering of gadgets, conduct experiments and make films. There are many opportunities for kids to exercise their creative juices, at a time in their lives when they are the most creative and open.

ENCOURAGE COMMUNICATION AND COLLABORATION

Students advance their communication skills by sharing their ideas and showcasing the results of their creativity to their peers. Students will often work together and enhance their collaboration skills.

PRACTICE CRITICAL THINKING BY PROBLEM-SOLVING

Students will be given challenges and adventures to figure out. They will be analyzing information, drawing conclusions and trying different solutions. We encourage resilience and an optimistic outlook. Optimism is a way of seeing the world where problems are temporary, and we can take actions to reduce or resolve problems.

LEARN BY DOING

Our classes are hands-on. Our instructors demonstrate and model new concepts. Then most of the time is dedicated to students developing and practicing their new skills. Our instructors provide guidance and support along the way.

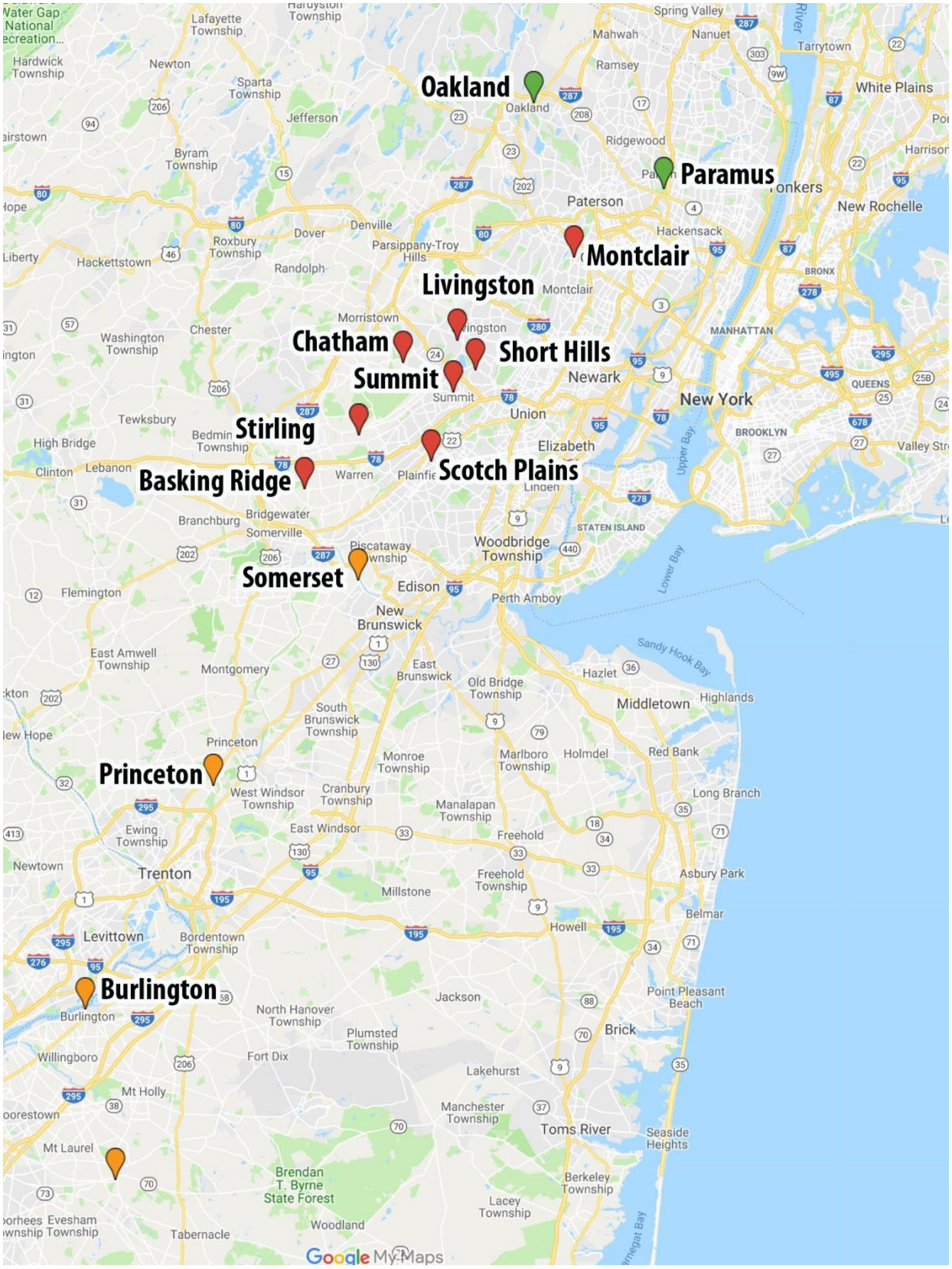
GREAT TEACHERS AND SMALL CLASSES

Our instructors thrive on the joy and curiosity of our students. Many of our nurturing instructors are certified teacher or specialists in their fields. We cap the enrollment of each class to 16 students to create better learning experiences.

FLEXIBLE SCHEDULING OPTIONS

All sessions are weekly so students can attend one week or multiple weeks. Each week, students can choose to attend either half-day or full-day. Half-day is either AM (9:00-12:30) or PM (1:30-5:00). Full-day is 9:00-5:00. We provide a complimentary 30-minute drop-off and pick-up period for greater flexibility.

LOCATIONS


Oakland
Paramus
Montclair
Livingston
Chatham
Short Hills
Summit
Stirling
Basking Ridge
Scotch Plains
Somerset
Princeton
Burlington
Google My Maps

SCHEDULES

	SHORT HILLS The Pingry School 50 Country Day Drive Short Hills, NJ 07078 www.iisummer.com/short-hills/	June 24 - August 9 Ages 3-15
	BASKING RIDGE The Pingry School 131 Martinsville Road Basking Ridge, NJ 07920 www.iisummer.com/basking/	July 8 - August 16 Ages 5-15
	BURLINGTON Doane Academy 350 Riverbank Burlington, NJ 08016 www.iisummer.com/burlington/	July 8 – August 9 Ages 5-15
	CHATHAM Chatham Day School 700 Shunpike Road Chatham, NJ 07928 www.iisummer.com/chatham/	June 24 – August 9 Ages 5-15

	LIVINGSTON Joseph Kushner Hebrew Academy 110 S Orange Ave Livingston, NJ 07039 www.iisummer.com/livingston/	July 8 - August 16 Ages 5-15
	MONTCLAIR Montclair State University 1 Normal Avenue Montclair, NJ 07043 **www.iisummer.com/montclair/**	July 8 - August 16 Ages 5-15
	OAKLAND NJ Sports House 12 Wright Way Oakland, NJ 07436 www.iisummer.com/oakland/	July 8 - August 16 Ages 5-15
	PARAMUS Ridgewood Montessori School 70 Eisenhower Drive Paramus, NJ 07652 **www.iisummer.com/paramus/**	July 8 - August 16 Ages 5-15

	PRINCETON Chapin School 4101 Princeton Pike Princeton, NJ 08540 www.iisummer.com/princeton/	July 8 - August 16 Ages 3-15
	SCOTCH PLAINS Language and Learning Center 551 Park Avenue Scotch Plains, NJ 07076 www.iisummer.com/scotch-plains/	July 1 - August 16 Ages 5-15
	SOMERSET Rutgers Preparatory School 1345 Easton Ave. Somerset, NJ 08873 www.iisummer.com/somerset/	July 8 - August 16 Ages 5-15
	STIRLING HudsonWay Immersion School 249 Bebout Ave. Stirling, NJ 07980 www.iisummer.com/stirling/	July 8 - August 16 Ages 5-15

	SUMMIT Kent Place School 42 Norwood Avenue Summit, NJ 07901 www.iisummer.com/summit/	July 8 - August 2 Ages 5-15

SCHEDULES

At International Ivy, we designed the Program to be flexible.

- All our sessions are weekly so families can sign up for any number of weeks, from one to all weeks.
- Families can select full-day or half-day for each week.
    - Full-day is from 9:00 AM to 5:00 AM. Students take one class in the morning (9:00-12:30), take lunch (12:30-1:30), then take one class in the afternoon (1:30-5:00).
    - Half-day is either AM or PM. The AM class is from 9:00 AM to 12:30 PM and the PM class is from 1:30 PM to 5:00 PM.
- Students can take only one class for the week (Monday to Friday) in the AM and only one class for the week in the PM.
- There is a 30-minute break in the morning from 10:30 AM to 11:00 AM and a 30-minute break in the afternoon from 3:00 PM - 3:30 PM. Please send in a beverage and snack for each break time.
- Families have 30 minutes to drop-off and pick-up their children. For example, if a child is enrolled full-day, the child can be dropped off between 8:30 AM to 9:00 AM and be picked up between 5:00 PM to 5:30 PM. There is a $1 per minute penalty for late pick-up beyond 5:30 PM.
- Extended Day for Mornings (8:00 AM – 8:30 AM) and Late Afternoons (5:30 PM - 6:00 PM) are available at certain locations (Chatham and Short Hills) for an additional fee of $50/week for AM extended day and $50/week for PM extended day.
- Please look at the following pages for specific class schedules for each location.

SCHEDULES – NJ – SHORT HILLS 1/3

SHORT HILLS 2019 CLASS SCHEDULE

Week 1 - June 24 - June 28			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
3D Printing	Ages 10-14	3D Printing	Ages 10-14
Anatomy and Surgical Techniques	Ages 10-14	Creative Writing Workshop	Ages 8-13
Fashion Design on the Computer	Ages 8-13	Forensic Science	Ages 10-14
Film-Making	Ages 8-13	Minecraft Math	Ages 8-13
Math & Problem-Solving Games	Ages 8-10	Pre-Architecture	Ages 10-14
Minecraft Creative - The Engineer in You	Ages 8-13	Programming - Scratch - Easy	Ages 7-10
Programming - Scratch - Easy	Ages 7-10	Robotics Lego ® Vehicles	Ages 8-10
Public Speaking and Youth Leadership	Ages 8-13	Stop-Action Animation	Ages 8-13
Robotics Lego ® Animals	Ages 8-10	Vocabulary and Grammar Games	Ages 8-10
Wee STEAMers Pre-K Camp	Ages 3-4	Wee STEAMers Pre-K Camp	Ages 3-4
Youngster - Left Brain Mix	Ages 5-7	Youngster - Right Brain Mix	Ages 5-7

Week 2 - July 1 - July 5 (closed July 4)			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
3D Printing	Ages 10-14	3D Printing	Ages 10-14
AdventureQuest- Leadership Games	Ages 5-10	Comic Creation	Ages 8-13
Canvas Painting	Ages 8-13	Engineering Discovery Workshop	Ages 7-10
Engineering - Flight and Aerospace	Ages 8-11	Engineering of Ice Cream	Ages 8-13
Minecraft Advanced	Ages 10-14	Escape Room Creation	Ages 8-13
Programming in Python - Introduction	Ages 10-14	Minecraft Survival for Beginners	Ages 5-10
Robotics Lego ® Vehicles	Ages 8-10	Programming in Java - Introduction	Ages 13-15
Video Game Creation Advanced	Ages 10-14	Robotics Lego ® Animals	Ages 8-10
War and Peace Games - Game Theory	Ages 10-14	Video Game Creation Beginners	Ages 8-10
Wee STEAMers Pre-K Camp	Ages 3-4	Wee STEAMers Pre-K Camp	Ages 3-4
Youngster - Right Brain Mix	Ages 5-7	Youngster - Left Brain Mix	Ages 5-7

Week 3 - July 8 - July 12			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
App Design Using App Inventor	Ages 10-14	Action Flix	Ages 8-11
Civil Engineering - Bridges and Buildings	Ages 8-11	App Design Using Game Salad (Apple ios)	Ages 10-14
Crazy Chemworks	Ages 7-10	Chemical Engineering: Polymers & Bioplastics	Ages 10-14
Drawing for Beginners	Ages 8-13	Detective/Spy Lab	Ages 7-10
Drone Programming	Ages 10-14	Drone Programming	Ages 10-14
Fashion and The Sewing Machine	Ages 8-13	Fencing	Ages 10-14
Investment Literacy and Stock Market Game	Ages 10-14	Math Competition Training	Ages 10-14
Lego Flix	Ages 6-10	Minecraft and Coding	Ages 10-14
Minecraft and Chemistry	Ages 10-14	Mixed Media Studio Art	Ages 8-13
Programming - Hopscotch	Ages 9-11	Raspberry Pi	Ages 10-14
Robotics Lego ® Animals	Ages 8-10	Roblox Game Development	Ages 10-14
Wee STEAMers Pre-K Camp	Ages 3-4	Robotics Lego ® Vehicles	Ages 8-10
Youngster - Left Brain Mix	Ages 5-7	Wee STEAMers Pre-K Camp	Ages 3-4
Youngster - Scratch Junior	Ages 5-7	Youngster - Right Brain Mix	Ages 5-7
YouTube Video Creation	Ages 8-13	Youngster - WeDo Robotics	Ages 5-7

SCHEDULES – NJ – SHORT HILLS 2/3

Week 4 - July 15 - July 19			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
3D Printing	Ages 10-14	3D Printing	Ages 10-14
AdventureQuest- Leadership Games	Ages 5-10	Chess for Beginner and Intermediate Players	Ages 7-14
Electrical Engineering with Makey-Makey	Ages 8-13	Engineering and Programming with Arduino	Ages 10-14
Eureka! The Inventors' Camp	Ages 7-10	Engineering Discovery Workshop	Ages 7-10
Minecraft and Coding	Ages 10-14	Film-Making	Ages 8-13
Robotics Lego ® Vehicles	Ages 8-10	Graphic Design and GIMP	Ages 8-13
Shark Tank Entrepreneur	Ages 10-14	Lemonade Stand Entrepreneur	Ages 8-10
Stop-Action Animation	Ages 8-13	Math & Problem-Solving Games	Ages 8-10
Virtual Reality	Ages 10-14	Minecraft and Chemistry	Ages 10-14
Vocabulary and Grammar Games	Ages 8-10	Robotics Lego ® Animals	Ages 8-10
Website Design with Wordpress	Ages 8-13	Shockingly Sticky Science	Ages 7-10
Wee STEAMers Pre-K Camp	Ages 3-4	Virtual Reality	Ages 10-14
Youngster - Right Brain Mix	Ages 5-7	Wee STEAMers Pre-K Camp	Ages 3-4
YouTube Video Creation	Ages 8-13	Youngster - Left Brain Mix	Ages 5-7

Week 5 - July 22 - July 26			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
3D Printing	Ages 10-14	3D Printing	Ages 10-14
Comic Creation	Ages 8-13	Anatomy and Surgical Techniques	Ages 10-14
Creative Writing Workshop	Ages 8-13	Canvas Painting	Ages 8-13
Drawing for Beginners	Ages 8-13	Fashion Design on the Computer	Ages 8-13
Forensic Science	Ages 10-14	Fencing	Ages 10-14
Minecraft Math	Ages 8-13	Leadership Games for Older Kids	Ages 10-14
Pre-Architecture	Ages 10-14	Minecraft Creative - The Engineer in You	Ages 8-13
Pre-Law	Ages 10-14	Programming - Scratch - Easy	Ages 7-10
Programming - Scratch - Easy	Ages 7-10	Public Speaking and Youth Leadership	Ages 8-13
Robotics VEX IQ Animals	Ages 10-15	Robotics VEX IQ Vehicles	Ages 10-15
STEAM challenges with littleBits ®	Ages 8-11	Wee STEAMers Pre-K Camp	Ages 3-4
Wee STEAMers Pre-K Camp	Ages 3-4	Youngster - Programming with Dash & Dot	Ages 5-7
Youngster - Left Brain Mix	Ages 5-7	Youngster - Right Brain Mix	Ages 5-7
Youngster - WeDo Robotics	Ages 5-7	Youngster - WeDo Robotics Level 2	Ages 6-8

Week 6 - July 29 - August 2			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Chess for Beginner and Intermediate Players	Ages 7-14	AdventureQuest- Leadership Games	Ages 5-10
Engineering Discovery Workshop	Ages 7-10	Engineering - Flight and Aerospace	Ages 8-11
Engineering of Ice Cream	Ages 8-13	Fashion and The Sewing Machine	Ages 8-13
Escape Room Creation	Ages 8-13	Minecraft Advanced	Ages 10-14
Leadership Games for Older Kids	Ages 10-14	Pre-Law	Ages 10-14
Minecraft Survival for Beginners	Ages 5-10	Programming in Python - Introduction	Ages 10-14
Mixed Media Studio Art	Ages 8-13	Robotics VEX IQ Animals	Ages 10-15
Programming in Java - Introduction	Ages 13-15	STEAM challenges with littleBits ®	Ages 8-11
Robotics VEX IQ Vehicles	Ages 10-15	Video Game Creation Advanced	Ages 10-14
Video Game Creation Beginners	Ages 8-10	War and Peace Games - Game Theory	Ages 10-14
Wee STEAMers Pre-K Camp	Ages 3-4	Wee STEAMers Pre-K Camp	Ages 3-4
Youngster - Right Brain Mix	Ages 5-7	Youngster - Left Brain Mix	Ages 5-7
Youngster - Scratch Junior	Ages 5-7	Youngster - WeDo Robotics	Ages 5-7
Youngster - WeDo Robotics Level 2	Ages 6-8	YouTube Video Creation	Ages 8-13

SCHEDULES – NJ – SHORT HILLS 3/3

Week 7 - August 5 - August 9			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
App Design Using Game Salad (Apple ios)	Ages 10-14	App Design Using App Inventor	Ages 10-14
Chemical Engineering: Polymers & Bioplastics	Ages 10-14	Civil Engineering - Bridges and Buildings	Ages 8-11
Detective/Spy Lab	Ages 7-10	Crazy Chemworks	Ages 7-10
Drawing for Beginners	Ages 8-13	Drone Programming	Ages 10-14
Drone Programming	Ages 10-14	Fencing	Ages 10-14
Film-Making	Ages 8-13	Investment Literacy and Stock Market Game	Ages 10-14
Math & Problem-Solving Games	Ages 8-10	Minecraft and Chemistry	Ages 10-14
Math Competition Training	Ages 10-14	Programming - Hopscotch	Ages 9-11
Minecraft and Coding	Ages 10-14	Robotics VEX IQ Vehicles	Ages 10-15
Raspberry Pi	Ages 10-14	Stop-Action Animation	Ages 8-13
Roblox Game Development	Ages 10-14	Vocabulary and Grammar Games	Ages 8-10
Robotics VEX IQ Animals	Ages 10-15	Wee STEAMers Pre-K Camp	Ages 3-4
Wee STEAMers Pre-K Camp	Ages 3-4	Youngster - Right Brain Mix	Ages 5-7
Youngster - Left Brain Mix	Ages 5-7	Youngster - Scratch Junior	Ages 5-7
Youngster - WeDo Robotics	Ages 5-7	YouTube Video Creation	Ages 8-13

SHORT HILLS - 2019		Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
(AM = 9:00-12:30 ; PM = 1:30 - 5:00)		June 24-28	July 1-5	July 8-12	July 15-19	July 22-26	July 29-Aug 2	Aug 5-9
3D Printing	Ages 10-14	AM, PM	AM, PM		AM, PM	AM, PM		
Action Flix	Ages 8-11			PM				
AdventureQuest- Leadership Games	Ages 5-10		AM		AM		PM	
Anatomy and Surgical Techniques	Ages 10-14	AM				PM		
App Design Using App Inventor	Ages 10-14			AM				PM
App Design Using Game Salad (Apple ios)	Ages 10-14			PM				AM
Canvas Painting	Ages 8-13		AM			PM		
Chemical Engineering: Polymers & Bioplastics	Ages 10-14			PM				AM
Chess for Beginner and Intermediate Players	Ages 7-14				PM		AM	
Civil Engineering - Bridges and Buildings	Ages 8-11			AM				PM
Comic Creation	Ages 8-13		PM			AM		
Crazy Chemworks	Ages 7-10			AM				PM
Creative Writing Workshop	Ages 8-13	PM				AM		
Detective/Spy Lab	Ages 7-10			PM				AM
Drawing for Beginners	Ages 8-13			AM		AM		AM
Drone Programming	Ages 10-14			AM, PM				AM, PM
Electrical Engineering with Makey-Makey	Ages 8-13				AM			
Engineering - Flight and Aerospace	Ages 8-11		AM				PM	
Engineering and Programming with Arduino	Ages 10-14				PM			
Engineering Discovery Workshop	Ages 7-10		PM		PM		AM	
Engineering of Ice Cream	Ages 8-13		PM				AM	
Escape Room Creation	Ages 8-13		PM				AM	
Eureka! The Inventors' Camp	Ages 7-10				AM			
Fashion and The Sewing Machine	Ages 8-13			AM			PM	
Fashion Design on the Computer	Ages 8-13	AM				PM		
Fencing	Ages 10-14			PM		PM		PM
Film-Making	Ages 8-13	AM			PM			AM
Forensic Science	Ages 10-14	PM				AM		
Graphic Design and GIMP	Ages 8-13				PM			
Investment Literacy and Stock Market Game	Ages 10-14			AM				PM
Leadership Games for Older Kids	Ages 10-14					PM	AM	
Lego Flix	Ages 6-10			AM				
Lemonade Stand Entrepreneur	Ages 8-10				PM			
Math & Problem-Solving Games	Ages 8-10	AM			PM			AM
Math Competition Training	Ages 10-14			PM				AM
Minecraft Advanced	Ages 10-14		AM				PM	
Minecraft and Chemistry	Ages 10-14			AM	PM			PM
Minecraft and Coding	Ages 10-14			PM	AM			AM
Minecraft Creative - The Engineer in You	Ages 8-13	AM				PM		
Minecraft Math	Ages 8-13	PM				AM		
Minecraft Survival for Beginners	Ages 5-10		PM				AM	
Mixed Media Studio Art	Ages 8-13			PM			AM	
Pre-Architecture	Ages 10-14	PM				AM		
Pre-Law	Ages 10-14					AM	PM	
Programming - Hopscotch	Ages 9-11			AM				PM
Programming - Scratch - Easy	Ages 7-10	AM, PM				AM, PM		
Programming in Java - Introduction	Ages 13-15		PM				AM	
Programming in Python - Introduction	Ages 10-14		AM				PM	
Public Speaking and Youth Leadership	Ages 8-13	AM				PM		
Raspberry Pi	Ages 10-14			PM				AM
Roblox Game Development	Ages 10-14			PM				AM
Robotics Lego ® Animals	Ages 8-10	AM	PM	AM	PM			
Robotics Lego ® Vehicles	Ages 8-10	PM	AM	PM	AM			
Robotics VEX IQ Animals	Ages 10-15					AM	PM	AM
Robotics VEX IQ Vehicles	Ages 10-15					PM	AM	PM
Shark Tank Entrepreneur	Ages 10-14				AM			
Shockingly Sticky Science	Ages 7-10				PM			
STEAM challenges with littleBits ®	Ages 8-11					AM	PM	
Stop-Action Animation	Ages 8-13	PM			AM			PM
Video Game Creation Advanced	Ages 10-14		AM				PM	
Video Game Creation Beginners	Ages 8-13		PM				AM	
Virtual Reality	Ages 10-14				AM, PM			
Vocabulary and Grammar Games	Ages 8-10	PM			AM			PM
War and Peace Games - Game Theory	Ages 10-14		AM				PM	
Website Design with Wordpress	Ages 8-13				AM			
Wee STEAMers Pre-K Camp	Ages 3-4	AM, PM	AM, PM	AM, PM	AM, PM	AM, PM	AM, PM	AM, PM
Youngster - Left Brain Mix	Ages 5-7	AM	PM	AM	PM	AM	PM	AM
Youngster - Programming with Dash & Dot	Ages 5-7					PM		
Youngster - Right Brain Mix	Ages 5-7	PM	AM	PM	AM	PM	AM	PM
Youngster - Scratch Junior	Ages 5-7			AM			AM	PM
Youngster - WeDo Robotics	Ages 5-7			PM		AM	PM	AM
Youngster - WeDo Robotics Level 2	Ages 6-8					PM	AM	
YouTube Video Creation	Ages 8-13			AM	AM		PM	PM

SCHEDULES – NJ – BASKING RIDGE

BASKING RIDGE 2019 CLASS SCHEDULE

Week 3 - July 8 - July 12			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
International Ivy only offers afternoon classes this week. For AM options, go to bigbluesummer.org		Test Prep - ISEE VERBAL for rising 4th and 5th	Ages 9-11
		Website Design with Wordpress	Ages 8-13
		Math Competition Training	Ages 10-14
		Civil Engineering - Bridges and Buildings	Ages 8-11
		Roblox Game Development	Ages 10-14

Week 4 - July 15 - July 19			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
International Ivy only offers afternoon classes this week. For AM options, go to bigbluesummer.org		Test Prep - ISEE MATH for rising 4th and 5th	Ages 9-11
		Graphic Design and GIMP	Ages 8-13
		Creative Writing Workshop	Ages 8-13
		Chemical Engineering: Polymers & Bioplastics	Ages 10-14
		Virtual Reality	Ages 10-14

Week 5 - July 22 - July 26			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
International Ivy only offers afternoon classes this week. For AM options, go to bigbluesummer.org		Test Prep - ISEE VERBAL for rising 6th and 7th gra	Ages 11-13
		Film-Making	Ages 8-13
		Investment Literacy and Stock Market Game	Ages 10-14
		Anatomy and Surgical Techniques	Ages 10-14
		Roblox Game Development	Ages 10-14

Week 6 - July 29 - August 2			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
International Ivy only offers afternoon classes this week. For AM options, go to bigbluesummer.org		Test Prep - ISEE MATH for rising 6th and 7th	Ages 11-13
		Stop-Action Animation	Ages 8-13
		Public Speaking and Youth Leadership	Ages 8-13
		Forensic Science	Ages 10-14
		Virtual Reality	Ages 10-14

Week 7 - August 5 - August 9			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
International Ivy only offers afternoon classes this week. For AM options, go to bigbluesummer.org		Test Prep - SSAT VERBAL for rising 3rd and 4th gra	Ages 8-10
		Website Design with Wordpress	Ages 8-13
		Math Competition Training	Ages 10-14
		Engineering Discovery Workshop	Ages 7-10
		Roblox Game Development	Ages 10-14

Week 8 - August 12 - August 16			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Action Flix	Ages 8-11	AdventureQuest- Leadership Games	Ages 5-10
Engineering and Programming with Arduino	Ages 10-14	Comic Creation	Ages 8-13
Engineering Discovery Workshop	Ages 7-10	Electrical Engineering with Makey-Makey	Ages 8-13
Graphic Design and GIMP	Ages 8-13	Lego Flix	Ages 6-10
Lemonade Stand Entrepreneur	Ages 8-10	Shark Tank Entrepreneur	Ages 10-14
Virtual Reality	Ages 10-14	Virtual Reality	Ages 10-14
Youngster - Programming with Dash & Dot	Ages 5-7	Website Design with Wordpress	Ages 8-13
YouTube Video Creation	Ages 8-13	Youngster - WeDo Robotics	Ages 5-7

BASKING RIDGE - 2019		Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
(AM = 9:00-12:30 ; PM = 1:30 - 5:00)		July 8-12	July 15-19	July 22-26	July 29-Aug 2	Aug 5-9	Aug 12-16
Action Flix	Ages 8-11						AM
AdventureQuest- Leadership Games	Ages 5-10						PM
Anatomy and Surgical Techniques	Ages 10-14			PM			
Chemical Engineering: Polymers & Bioplastics	Ages 10-14		PM				
Civil Engineering - Bridges and Buildings	Ages 8-11			PM			
Comic Creation	Ages 8-13						PM
Creative Writing Workshop	Ages 8-13		PM				
Electrical Engineering with Makey-Makey	Ages 8-13						PM
Engineering and Programming with Arduino	Ages 10-14						AM
Engineering Discovery Workshop	Ages 7-10					PM	AM
Film-Making	Ages 8-13			PM			
Forensic Science	Ages 10-14				PM		
Graphic Design and GIMP	Ages 8-13		PM				AM
Investment Literacy and Stock Market Game	Ages 10-14			PM			
Lego Flix	Ages 6-10						PM
Lemonade Stand Entrepreneur	Ages 8-10						AM
Math Competition Training	Ages 10-14	PM				PM	
Public Speaking and Youth Leadership	Ages 8-13				PM		
Roblox Game Development	Ages 10-14	PM		PM		PM	
Shark Tank Entrepreneur	Ages 10-14						PM
Stop-Action Animation	Ages 8-13				PM		
Test Prep - ISEE MATH for rising 4th and 5th graders	Ages 9-11		PM				
Test Prep - ISEE MATH for rising 6th and 7th graders	Ages 11-13				PM		
Test Prep - ISEE VERBAL for rising 4th and 5th graders	Ages 9-11	PM				PM	
Test Prep - ISEE VERBAL for rising 6th and 7th graders	Ages 11-13			PM			
Virtual Reality	Ages 10-14		PM		PM		AM,PM
Website Design with Wordpress	Ages 8-13	PM				PM	PM
Youngster - Programming with Dash & Dot	Ages 5-7						AM
Youngster - WeDo Robotics	Ages 5-7						PM
YouTube Video Creation	Ages 8-13						AM

SCHEDULES – NJ – BURLINGTON

BURLINGTON 2019 CLASS SCHEDULE

Week 3 - July 8 - July 12			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
App Design Using App Inventor	Ages 10-14	Chemical Engineering: Polymers & Bioplastics	Ages 8-13
Canvas Painting	Ages 8-13	Comic Creation	Ages 8-13
Civil Engineering - Bridges and Buildings	Ages 8-13	GIRLS ONLY: Robotics	Ages 11-15
GIRLS ONLY: Robotics, Engineering & Computer Science	Ages 9-11	Math Competition Training	Ages 8-13
Investment Literacy and Stock Market Game	Ages 8-13	Minecraft and Coding	Ages 10-14
Minecraft and Chemistry	Ages 10-14	Roblox Game Development	Ages 10-14
Youngster - WeDo Robotics	Ages 5-7	Youngster - Programming with Dash & Dot	Ages 5-7

Week 4 - July 15 - July 19			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Anatomy and Surgical Techniques	Ages 10-14	Engineering and Programming with Arduino	Ages 10-14
Electrical Engineering with Makey-Makey	Ages 8-13	Forensic Science	Ages 10-14
GIRLS ONLY: Programming in Scratch and Hopsctoch	Ages 8-11	GIRLS ONLY: Robotics	Ages 11-15
Shark Tank Entrepreneur	Ages 10-14	Graphic Design and GIMP	Ages 8-13
Virtual Reality	Ages 10-14	Lemonade Stand Entrepreneur	Ages 8-10
Website Design with Wordpress	Ages 8-13	Virtual Reality	Ages 10-14
Youngster - Scratch Junior	Ages 5-7	Youngster - WeDo Robotics	Ages 5-7

Week 5 - July 22 - July 26			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Creative Writing Workshop	Ages 8-13	Engineering of Ice Cream	Ages 8-13
Engineering - Flight and Aerospace	Ages 8-13	Fashion Design on the Computer	Ages 8-13
Minecraft Math	Ages 8-13	Minecraft Creative - The Engineer in You	Ages 8-13
Pre-Architecture	Ages 10-14	Programming - Scratch - Easy	Ages 7-10
Programming - Scratch - Easy	Ages 7-10	Public Speaking and Youth Leadership	Ages 8-13
Robotics VEX IQ Animals	Ages 10-15	Robotics VEX IQ Vehicles	Ages 10-15

Week 6 - July 29 - August 2			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Engineering of Ice Cream	Ages 8-13	Engineering - Flight and Aerospace	Ages 8-13
Escape Room Creation	Ages 8-13	Minecraft Advanced	Ages 10-14
Minecraft Survival for Beginners	Ages 5-10	Programming in Python - Introduction	Ages 10-14
Programming in Java - Introduction	Ages 13-15	Robotics Lego ® Vehicles	Ages 8-13
Robotics Lego ® Animals	Ages 8-13	Video Game Creation Advanced	Ages 10-14
Video Game Creation Beginners	Ages 8-13	War and Peace Games - Game Theory	Ages 10-14

Week 7 - August 5 - August 9			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
3D Printing	Ages 10-14	3D Printing	Ages 10-14
Chemical Engineering: Polymers & Bioplastics	Ages 8-13	App Design Using App Inventor	Ages 10-14
Drone Programming	Ages 10-14	Civil Engineering - Bridges and Buildings	Ages 8-13
Math Competition Training	Ages 8-13	Drone Programming	Ages 10-14
Minecraft and Coding	Ages 10-14	Investment Literacy and Stock Market Game	Ages 8-13
Roblox Game Development	Ages 10-14	Minecraft and Chemistry	Ages 10-14

BURLINGTON - 2019		Week 3	Week 4	Week 5	Week 6	Week 7
(AM = 9:00-12:30 ; PM = 1:30 - 5:00)		July 8-12	July 15-19	July 22-26	July 29-Aug 2	Aug 5-9
3D Printing	Ages 10-14					AM, PM
Anatomy and Surgical Techniques	Ages 10-14		AM			
App Design Using App Inventor	Ages 10-14	AM				PM
Canvas Painting	Ages 8-13	AM				
Chemical Engineering: Polymers & Bioplastics	Ages 10-14	PM				AM
Civil Engineering - Bridges and Buildings	Ages 8-11	AM				PM
Comic Creation	Ages 8-13	PM				
Creative Writing Workshop	Ages 8-13			AM		
Drone Programming	Ages 10-14					AM, PM
Electrical Engineering with Makey-Makey	Ages 8-13		AM			
Engineering - Flight and Aerospace	Ages 8-11			AM	PM	
Engineering and Programming with Arduino	Ages 10-14		PM			
Engineering of Ice Cream	Ages 8-13			PM	AM	
Escape Room Creation	Ages 8-13				AM	
Fashion Design on the Computer	Ages 8-13			PM		
Forensic Science	Ages 10-14		PM			
GIRLS ONLY: Programming in Scratch and Hopsctoch	Ages 8-11		AM			
GIRLS ONLY: Robotics	Ages 11-15	PM	PM			
GIRLS ONLY: Robotics-Engineering-Computer Science	Ages 9-11	AM				
Graphic Design and GIMP	Ages 8-13		PM			
Investment Literacy and Stock Market Game	Ages 10-14	AM				PM
Lemonade Stand Entrepreneur	Ages 8-10		PM			
Math Competition Training	Ages 10-14	PM				AM
Minecraft Advanced	Ages 10-14				PM	
Minecraft and Chemistry	Ages 10-14	AM				PM
Minecraft and Coding	Ages 10-14	PM				AM
Minecraft Creative - The Engineer in You	Ages 8-13			PM		
Minecraft Math	Ages 8-13			AM		
Minecraft Survival for Beginners	Ages 5-10				AM	
Pre-Architecture	Ages 10-14			AM		
Programming - Scratch - Easy	Ages 7-10			AM, PM		
Programming in Java - Introduction	Ages 13-15				AM	
Programming in Python - Introduction	Ages 10-14				PM	
Public Speaking and Youth Leadership	Ages 8-13			PM		
Roblox Game Development	Ages 10-14	PM				AM
Robotics Lego ® Animals	Ages 8-10				AM	
Robotics Lego ® Vehicles	Ages 8-10				PM	
Robotics VEX IQ Animals	Ages 10-15			AM		
Robotics VEX IQ Vehicles	Ages 10-15			PM		
Shark Tank Entrepreneur	Ages 10-14		AM			
Video Game Creation Advanced	Ages 10-14				PM	
Video Game Creation Beginners	Ages 8-10				AM	
Virtual Reality	Ages 10-14		AM, PM			
War and Peace Games - Game Theory	Ages 10-14				PM	
Website Design with Wordpress	Ages 8-13		AM			
Youngster - Programming with Dash & Dot	Ages 5-7	PM				
Youngster - Scratch Junior	Ages 5-7		AM			
Youngster - WeDo Robotics	Ages 5-7	AM	PM			

SCHEDULES – NJ – CHATHAM 1/2

CHATHAM 2019 CLASS SCHEDULE

Week 1 - June 24 - June 28			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
AdventureQuest- Leadership Games	Ages 5-10	Comic Creation	Ages 8-13
Canvas Painting	Ages 8-13	Engineering Discovery Workshop	Ages 7-10
Engineering - Flight and Aerospace	Ages 8-11	Engineering of Ice Cream	Ages 8-13
Minecraft Advanced	Ages 10-14	Escape Room Creation	Ages 8-13
Programming in Python - Introduction	Ages 10-14	Minecraft Survival for Beginners	Ages 5-10
Robotics VEX IQ Animals	Ages 10-15	Programming in Java - Introduction	Ages 13-15
STEAM challenges with littleBits ®	Ages 8-11	Robotics VEX IQ Vehicles	Ages 10-15
Video Game Creation Advanced	Ages 10-14	Video Game Creation Beginners	Ages 8-10
War and Peace Games - Game Theory	Ages 10-14	Youngster - WeDo Robotics Level 2	Ages 6-8

Week 2 - July 1 - July 5 (closed July 4)			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
App Design Using App Inventor	Ages 10-14	Action Flix	Ages 8-11
Civil Engineering - Bridges and Buildings	Ages 8-11	Chemical Engineering: Polymers & Bioplastics	Ages 10-14
Drone Programming	Ages 10-14	Drone Programming	Ages 10-14
Fashion and The Sewing Machine	Ages 8-13	Math Competition Training	Ages 10-14
Investment Literacy and Stock Market Game	Ages 10-14	Minecraft and Coding	Ages 10-14
Lego Flix	Ages 6-10	Mixed Media Studio Art	Ages 8-13
Minecraft and Chemistry	Ages 10-14	Raspberry Pi	Ages 10-14
Robotics VEX IQ Vehicles	Ages 10-15	Roblox Game Development	Ages 10-14
STEAM challenges with littleBits ®	Ages 8-11	Robotics VEX IQ Animals	Ages 10-15
YouTube Video Creation	Ages 8-13	Youngster - WeDo Robotics Level 2	Ages 6-8

Week 3 - July 8 - July 12			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
AdventureQuest- Leadership Games	Ages 5-10	Chess for Beginner and Intermediate Players	Ages 7-14
Anatomy and Surgical Techniques	Ages 10-14	Engineering and Programming with Arduino	Ages 10-14
Electrical Engineering with Makey-Makey	Ages 8-13	Engineering Discovery Workshop	Ages 7-10
Minecraft and Coding	Ages 10-14	Film-Making	Ages 8-13
Robotics VEX IQ Animals	Ages 10-15	Forensic Science	Ages 10-14
Shark Tank Entrepreneur	Ages 10-14	Graphic Design and GIMP	Ages 8-13
Stop-Action Animation	Ages 8-13	Lemonade Stand Entrepreneur	Ages 8-10
Virtual Reality	Ages 10-14	Math & Problem-Solving Games	Ages 8-10
Vocabulary and Grammar Games	Ages 8-10	Minecraft and Chemistry	Ages 10-14
Website Design with Wordpress	Ages 8-13	Robotics VEX IQ Vehicles	Ages 10-15
Youngster - Right Brain Mix	Ages 5-7	Virtual Reality	Ages 10-14
YouTube Video Creation	Ages 8-13	Youngster - Left Brain Mix	Ages 5-7

Week 4 - July 15 - July 19			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Comic Creation	Ages 8-13	Anatomy and Surgical Techniques	Ages 10-14
Creative Writing Workshop	Ages 8-13	App Design Using Game Salad (Apple ios)	Ages 10-14
Forensic Science	Ages 10-14	Canvas Painting	Ages 8-13
Minecraft Math	Ages 8-13	Chess for Beginner and Intermediate Players	Ages 7-14
Pre-Architecture	Ages 10-14	Fashion Design on the Computer	Ages 8-13
Pre-Law	Ages 10-14	Leadership Games for Older Kids	Ages 10-14
Programming - Hopscotch	Ages 9-11	Minecraft Creative - The Engineer in You	Ages 8-13
Programming - Scratch - Easy	Ages 7-10	Programming - Scratch - Easy	Ages 7-10
Robotics VEX IQ Vehicles	Ages 10-15	Public Speaking and Youth Leadership	Ages 8-13
Virtual Reality	Ages 10-14	Robotics VEX IQ Animals	Ages 10-15
Youngster - Left Brain Mix	Ages 5-7	Virtual Reality	Ages 10-14
Youngster - WeDo Robotics	Ages 5-7	Youngster - Programming with Dash & Dot	Ages 5-7
YouTube Video Creation	Ages 8-13	Youngster - Right Brain Mix	Ages 5-7

SCHEDULES – NJ – CHATHAM 2/2

Week 5 - July 22 - July 26			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Chess for Beginner and Intermediate Players	Ages 7-14	AdventureQuest- Leadership Games	Ages 5-10
Engineering Discovery Workshop	Ages 7-10	Engineering - Flight and Aerospace	Ages 8-11
Engineering of Ice Cream	Ages 8-13	Fashion and The Sewing Machine	Ages 8-13
Escape Room Creation	Ages 8-13	Minecraft Advanced	Ages 10-14
Minecraft Survival for Beginners	Ages 5-10	Programming in Python - Introduction	Ages 10-14
Mixed Media Studio Art	Ages 8-13	Robotics Lego ® Animals	Ages 8-10
Programming in Java - Introduction	Ages 13-15	Video Game Creation Advanced	Ages 10-14
Robotics Lego ® Vehicles	Ages 8-10	War and Peace Games - Game Theory	Ages 10-14
Test Prep - ISEE MATH for rising 4th and 5th graders	Ages 9-11	Test Prep - ISEE VERBAL for rising 4th and 5th graders	Ages 9-11
Video Game Creation Beginners	Ages 8-10	Youngster - Left Brain Mix	Ages 5-7
Youngster - Right Brain Mix	Ages 5-7	Youngster - WeDo Robotics	Ages 5-7
Youngster - Scratch Junior	Ages 5-7	YouTube Video Creation	Ages 8-13

Week 6 - July 29 - August 2			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
3D Printing	Ages 10-14	3D Printing	Ages 10-14
Chemical Engineering: Polymers & Bioplastics	Ages 10-14	App Design Using App Inventor	Ages 10-14
Drone Programming	Ages 10-14	Civil Engineering - Bridges and Buildings	Ages 8-11
Film-Making	Ages 8-13	Drone Programming	Ages 10-14
Math Competition Training	Ages 10-14	Investment Literacy and Stock Market Game	Ages 10-14
Minecraft and Coding	Ages 10-14	Minecraft and Chemistry	Ages 10-14
Raspberry Pi	Ages 10-14	Robotics Lego ® Vehicles	Ages 8-10
Roblox Game Development	Ages 10-14	Stop-Action Animation	Ages 8-13
Robotics Lego ® Animals	Ages 8-10	Wee STEAMers Pre-K Camp	Ages 3-4
Wee STEAMers Pre-K Camp	Ages 3-4	Youngster - Right Brain Mix	Ages 5-7
Youngster - Left Brain Mix	Ages 5-7	Youngster - Scratch Junior	Ages 5-7
Youngster - WeDo Robotics	Ages 5-7	YouTube Video Creation	Ages 8-13

Week 7 - August 5 - August 9			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
3D Printing	Ages 10-14	3D Printing	Ages 10-14
Anatomy and Surgical Techniques	Ages 10-14	AdventureQuest- Leadership Games	Ages 5-10
Canvas Painting	Ages 8-13	Comic Creation	Ages 8-13
Engineering and Programming with Arduino	Ages 10-14	Electrical Engineering with Makey-Makey	Ages 8-13
Engineering Discovery Workshop	Ages 7-10	Forensic Science	Ages 10-14
Graphic Design and GIMP	Ages 8-13	Minecraft Advanced	Ages 10-14
Leadership Games for Older Kids	Ages 10-14	Pre-Law	Ages 10-14
Lemonade Stand Entrepreneur	Ages 8-10	Robotics Lego ® Animals	Ages 8-10
Minecraft Creative - The Engineer in You	Ages 8-13	Shark Tank Entrepreneur	Ages 10-14
Robotics Lego ® Vehicles	Ages 8-10	Virtual Reality	Ages 10-14
STEAM challenges with littleBits ®	Ages 8-11	Website Design with Wordpress	Ages 8-13
Virtual Reality	Ages 10-14	Wee STEAMers Pre-K Camp	Ages 3-4
Wee STEAMers Pre-K Camp	Ages 3-4	Youngster - Left Brain Mix	Ages 5-7
Youngster - Right Brain Mix	Ages 5-7	Youngster - WeDo Robotics Level 2	Ages 6-8

Week 8 - August 12 - August 16			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Canvas Painting	Ages 8-13	Chess for Beginner and Intermediate Players	Ages 7-14
Fashion and The Sewing Machine	Ages 8-13	Minecraft Advanced	Ages 10-14
Minecraft Creative - The Engineer in You	Ages 8-13	Mixed Media Studio Art	Ages 8-13
Robotics VEX IQ Vehicles	Ages 10-15	Robotics VEX IQ Animals	Ages 10-15
Test Prep - ISEE VERBAL for rising 4th and 5th graders	Ages 9-11	Test Prep - ISEE MATH for rising 4th and 5th graders	Ages 9-11
Wee STEAMers Pre-K Camp	Ages 3-4	Wee STEAMers Pre-K Camp	Ages 3-4
Youngster - Left Brain Mix	Ages 5-7	Youngster - Right Brain Mix	Ages 5-7

CHATHAM - 2019		Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
(AM = 9:00 - 12:30 ; PM = 1:30 - 5:00)		June 24-28	July 1-5	July 8-12	July 15-19	July 22-26	July 29-Aug 2	Aug 5-9	Aug 12-16
3D Printing	Ages 10-14						AM, PM	AM, PM	
Action Flix	Ages 8-11		PM						
AdventureQuest- Leadership Games	Ages 5-10	AM		AM		PM		PM	
Anatomy and Surgical Techniques	Ages 10-14			AM	PM			AM	
App Design Using App Inventor	Ages 10-14		AM				PM		
App Design Using Game Salad (Apple ios)	Ages 10-14				PM				
Canvas Painting	Ages 8-13	AM			PM			PM	AM
Chemical Engineering: Polymers & Bioplastics	Ages 10-14		PM				AM		
Chess for Beginner and Intermediate Players	Ages 7-14			PM	PM	AM			PM
Civil Engineering - Bridges and Buildings	Ages 8-11		AM				PM		
Comic Creation	Ages 8-13	PM			AM			PM	
Creative Writing Workshop	Ages 8-13				AM				
Drone Programming	Ages 10-14		AM, PM				AM, PM		
Electrical Engineering with Makey-Makey	Ages 8-13			AM				PM	
Engineering - Flight and Aerospace	Ages 8-11	AM				PM			
Engineering and Programming with Arduino	Ages 10-14			PM				AM	
Engineering Discovery Workshop	Ages 7-10	PM		PM		AM		AM	
Engineering of Ice Cream	Ages 8-13	PM				AM			
Escape Room Creation	Ages 8-13	PM				AM			
Fashion and The Sewing Machine	Ages 8-13		AM			PM			AM
Fashion Design on the Computer	Ages 8-13				PM				
Film-Making	Ages 8-13			PM			AM		
Forensic Science	Ages 10-14			PM	AM			PM	
Graphic Design and GIMP	Ages 8-13			PM				AM	
Investment Literacy and Stock Market Game	Ages 10-14		AM				PM		
Leadership Games for Older Kids	Ages 10-14				PM			AM	
Lego Flix	Ages 6-10		AM						
Lemonade Stand Entrepreneur	Ages 8-10			PM				AM	
Math & Problem-Solving Games	Ages 8-10			PM					
Math Competition Training	Ages 10-14		PM				AM		
Minecraft Advanced	Ages 10-14	AM				PM		PM	PM
Minecraft and Chemistry	Ages 10-14		AM	PM			PM		
Minecraft and Coding	Ages 10-14		PM	AM			AM		
Minecraft Creative - The Engineer in You	Ages 8-13				PM			AM	AM
Minecraft Math	Ages 8-13				AM				
Minecraft Survival for Beginners	Ages 5-10	PM				AM			
Mixed Media Studio Art	Ages 8-13		PM			AM			PM
Pre-Architecture	Ages 10-14				AM				
Pre-Law	Ages 10-14				AM			PM	
Programming - Hopscotch	Ages 9-11				AM				
Programming - Scratch - Easy	Ages 7-10				AM, PM				
Programming in Java - Introduction	Ages 13-15	PM				AM			
Programming in Python - Introduction	Ages 10-14	AM				PM			
Public Speaking and Youth Leadership	Ages 8-13				PM				
Raspberry Pi	Ages 10-14		PM				AM		
Roblox Game Development	Ages 10-14		PM				AM		
Robotics Lego ® Animals	Ages 8-10					PM	AM	PM	
Robotics Lego ® Vehicles	Ages 8-10					AM	PM	AM	
Robotics VEX IQ Animals	Ages 10-15	AM	PM	AM	PM				PM
Robotics VEX IQ Vehicles	Ages 10-15	PM	AM	PM	AM				AM
Shark Tank Entrepreneur	Ages 10-14			AM				PM	
STEAM challenges with littleBits ®	Ages 8-11	AM	AM					AM	
Stop-Action Animation	Ages 8-13			AM			PM		
Test Prep - ISEE MATH for rising 4th and 5th graders	Ages 9-11					AM			PM
Test Prep - ISEE VERBAL for rising 4th and 5th graders	Ages 9-11					PM			AM
Video Game Creation Advanced	Ages 10-14	AM				PM			
Video Game Creation Beginners	Ages 8-13	PM				AM			
Virtual Reality	Ages 10-14			AM, PM	AM, PM			AM, PM	
Vocabulary and Grammar Games	Ages 8-10			AM		PM			
War and Peace Games - Game Theory	Ages 10-14	AM				PM			
Website Design with Wordpress	Ages 8-13			AM				PM	
Wee STEAMers Pre-K Camp	Ages 3-4						AM, PM	AM, PM	AM, PM
Youngster - Left Brain Mix	Ages 5-7			PM	AM	PM	AM	PM	AM
Youngster - Programming with Dash & Dot	Ages 5-7				PM				
Youngster - Right Brain Mix	Ages 5-7			AM	PM	AM	PM	AM	PM
Youngster - Scratch Junior	Ages 5-7					AM	PM		
Youngster - WeDo Robotics	Ages 5-7				AM	PM	AM		
Youngster - WeDo Robotics Level 2	Ages 6-8	PM	PM					PM	
YouTube Video Creation	Ages 8-13		AM	AM	AM	PM	PM		

SCHEDULES – NJ – LIVINGSTON

LIVINGSTON 2019 CLASS SCHEDULE

Week 3 - July 8 - July 12			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Anatomy and Surgical Techniques	Ages 10-14	Chess for Beginner and Intermediate Players	Ages 7-14
Electrical Engineering with Makey-Makey	Ages 8-13	Engineering and Programming with Arduino	Ages 10-14
GIRLS ONLY: Robotics Engineering & Computer Science	Ages 7-9	Film-Making	Ages 8-13
Minecraft and Coding	Ages 10-14	Forensic Science	Ages 10-14
Robotics VEX IQ Animals	Ages 10-15	GIRLS ONLY: Robotics Engineering & Computer Science	Ages 9-11
Shark Tank Entrepreneur	Ages 10-14	Graphic Design and GIMP	Ages 8-13
STEAM challenges with littleBits ®	Ages 8-11	Lemonade Stand Entrepreneur	Ages 8-10
Stop-Action Animation	Ages 8-13	Minecraft and Chemistry	Ages 10-14
Virtual Reality	Ages 10-14	Robotics VEX IQ Vehicles	Ages 10-15
Website Design with Wordpress	Ages 8-13	Virtual Reality	Ages 10-14
YouTube Video Creation	Ages 8-13	Youngster - WeDo Robotics Level 2	Ages 6-8

Week 4 - July 15 - July 19			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Comic Creation	Ages 8-13	Anatomy and Surgical Techniques	Ages 10-14
Creative Writing Workshop	Ages 8-13	Canvas Painting	Ages 8-13
Forensic Science	Ages 10-14	Fashion Design on the Computer	Ages 8-13
GIRLS ONLY: Robotics	Ages 11-15	GIRLS ONLY: Programming in Scratch and Hopsctoch	Ages 8-11
Minecraft Math	Ages 8-13	Minecraft Creative - The Engineer in You	Ages 8-13
Pre-Architecture	Ages 10-14	Programming - Scratch - Easy	Ages 7-10
Programming - Scratch - Easy	Ages 7-10	Public Speaking and Youth Leadership	Ages 8-13
Robotics VEX IQ Vehicles	Ages 10-15	Robotics VEX IQ Animals	Ages 10-15
Virtual Reality	Ages 10-14	STEAM challenges with littleBits ®	Ages 8-11
Youngster - WeDo Robotics Level 2	Ages 6-8	Virtual Reality	Ages 10-14

Week 5 - July 22 - July 26			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Chess for Beginner and Intermediate Players	Ages 7-14	Engineering - Flight and Aerospace	Ages 8-11
Engineering of Ice Cream	Ages 8-13	Fashion and The Sewing Machine	Ages 8-13
Escape Room Creation	Ages 8-13	GIRLS ONLY: Robotics Engineering & Computer Science	Ages 7-9
GIRLS ONLY: Robotics Engineering & Computer Science	Ages 9-11	Minecraft Advanced	Ages 10-14
Math & Problem-Solving Games	Ages 8-10	Programming in Python - Introduction	Ages 10-14
Minecraft Survival for Beginners	Ages 5-10	Robotics Lego ® Animals	Ages 8-10
Mixed Media Studio Art	Ages 8-13	Video Game Creation Advanced	Ages 10-14
Programming in Java - Introduction	Ages 13-15	Vocabulary and Grammar Games	Ages 8-10
Robotics Lego ® Vehicles	Ages 8-10	War and Peace Games - Game Theory	Ages 10-14
Video Game Creation Beginners	Ages 8-10	YouTube Video Creation	Ages 8-13

Week 6 - July 29 - August 2			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
3D Printing	Ages 10-14	AdventureQuest- Leadership Games	Ages 5-10
Chemical Engineering: Polymers & Bioplastics	Ages 10-14	Chess for Beginner and Intermediate Players	Ages 7-14
Drone Programming	Ages 10-14	Electrical Engineering with Makey-Makey	Ages 8-13
Film-Making	Ages 8-13	Eureka! The Inventors' Camp	Ages 7-10
GIRLS ONLY: Programming in Scratch and Hopsctoch	Ages 8-11	Minecraft Advanced	Ages 10-14
Math Competition Training	Ages 10-14	Robotics VEX IQ Animals	Ages 10-15
Minecraft and Coding	Ages 10-14	Shark Tank Entrepreneur	Ages 10-14
Raspberry Pi	Ages 10-14	Virtual Reality	Ages 10-14
Roblox Game Development	Ages 10-14	Website Design with Wordpress	Ages 8-13
Robotics Lego ® Animals	Ages 8-10	Youngster - Left Brain Mix	Ages 5-7

Week 7 - August 5 - August 9			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
3D Printing	Ages 10-14	3D Printing	Ages 10-14
Creative Writing Workshop	Ages 8-13	Public Speaking and Youth Leadership	Ages 8-13
Minecraft Math	Ages 8-13	Minecraft Creative - The Engineer in You	Ages 8-13
Programming - Scratch - Easy	Ages 7-10	Programming - Scratch - Easy	Ages 7-10
Robotics VEX IQ Animals	Ages 10-15	Robotics VEX IQ Vehicles	Ages 10-15
Forensic Science	Ages 10-14	Anatomy and Surgical Techniques	Ages 10-14
Comic Creation	Ages 8-13	Canvas Painting	Ages 8-13

Week 8 - August 12 - August 16			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Action Flix	Ages 8-11	AdventureQuest- Leadership Games	Ages 5-10
Canvas Painting	Ages 8-13	Chess for Beginner and Intermediate Players	Ages 7-14
Engineering and Programming with Arduino	Ages 10-14	Comic Creation	Ages 8-13
Engineering Discovery Workshop	Ages 7-10	Electrical Engineering with Makey-Makey	Ages 8-13
Fashion and The Sewing Machine	Ages 8-13	Eureka! The Inventors' Camp	Ages 7-10
Graphic Design and GIMP	Ages 8-13	Lego Flix	Ages 6-10
Lemonade Stand Entrepreneur	Ages 8-10	Minecraft Advanced	Ages 10-14
Minecraft Creative - The Engineer in You	Ages 8-13	Mixed Media Studio Art	Ages 8-13
Robotics VEX IQ Vehicles	Ages 10-15	Robotics VEX IQ Animals	Ages 10-15
Shockingly Sticky Science	Ages 7-10	Shark Tank Entrepreneur	Ages 10-14
Virtual Reality	Ages 10-14	Virtual Reality	Ages 10-14
Wee STEAMers Pre-K Camp	Ages 3-4	Website Design with Wordpress	Ages 8-13
Youngster - Programming with Dash & Dot	Ages 5-7	Wee STEAMers Pre-K Camp	Ages 3-4
Youngster - Right Brain Mix	Ages 5-7	Youngster - Left Brain Mix	Ages 5-7
YouTube Video Creation	Ages 8-13	Youngster - WeDo Robotics	Ages 5-7

LIVINGSTON - 2019		Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
(AM = 9:00-12:30 ; PM = 1:30-5:00)		July 8-12	July 15-19	July 22-26	July 29-Aug 2	Aug 5-9	Aug 12-16
3D Printing	Ages 10-14				AM, PM	AM, PM	
Action Flix	Ages 8-11						AM
AdventureQuest- Leadership Games	Ages 5-10						PM
Anatomy and Surgical Techniques	Ages 10-14	AM	PM			PM	
App Design Using App Inventor	Ages 10-14				PM		
Canvas Painting	Ages 8-13		PM			PM	AM
Chemical Engineering: Polymers & Bioplastics	Ages 10-14				AM		
Chess for Beginner and Intermediate Players	Ages 7-14	PM		AM			PM
Civil Engineering - Bridges and Buildings	Ages 8-11				PM		
Comic Creation	Ages 8-13		AM			AM	PM
Creative Writing Workshop	Ages 8-13		AM			AM	
Drone Programming	Ages 10-14				AM, PM		
Electrical Engineering with Makey-Makey	Ages 8-13	AM					PM
Engineering - Flight and Aerospace	Ages 8-11			PM			
Engineering and Programming with Arduino	Ages 10-14	PM					AM
Engineering Discovery Workshop	Ages 7-10						AM
Engineering of Ice Cream	Ages 8-13			AM			
Escape Room Creation	Ages 8-13			AM			
Eureka! The Inventors' Camp	Ages 7-10						PM
Fashion and The Sewing Machine	Ages 8-13			PM			AM
Fashion Design on the Computer	Ages 8-13		PM				
Film-Making	Ages 8-13	PM			AM		
Forensic Science	Ages 10-14	PM	AM			AM	
GIRLS ONLY: Programming in Scratch and Hopsctoch	Ages 8-11		PM		AM		
GIRLS ONLY: Robotics	Ages 11-15		AM		PM		
GIRLS ONLY: Robotics Engineering & Computer Scienc	Ages 7-9	AM		PM			
GIRLS ONLY: Robotics Engineering & Computer Scienc	Ages 9-11	PM		AM			
Graphic Design and GIMP	Ages 8-13	PM					AM
Investment Literacy and Stock Market Game	Ages 10-14				PM		
Lego Flix	Ates 6-10						PM
Lemonade Stand Entrepreneur	Ages 8-10	PM					AM
Math & Problem-Solving Games	Ages 8-10			AM			
Math Competition Training	Ages 10-14				AM		
Minecraft Advanced	Ages 10-14			PM			PM
Minecraft and Chemistry	Ages 10-14	PM			PM		
Minecraft and Coding	Ages 10-14	AM			AM		
Minecraft Creative - The Engineer in You	Ages 8-13		PM			PM	AM
Minecraft Math	Ages 8-13		AM			AM	
Minecraft Survival for Beginners	Ages 5-10			AM			
Mixed Media Studio Art	Ages 8-13			AM			PM
Pre-Architecture	Ages 10-14		AM				
Programming - Scratch - Easy	Ages 7-10		AM, PM			AM, PM	
Programming in Java - Introduction	Ages 13-15			AM			
Programming in Python - Introduction	Ages 10-14			PM			
Public Speaking and Youth Leadership	Ages 8-13		PM			PM	

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Raspberry Pi	Ages 10-14				**AM**		
Roblox Game Development	Ages 10-14				**AM**		
Robotics Lego ® Animals	Ages 8-10			**PM**	**AM**		
Robotics Lego ® Vehicles	Ages 8-10			**AM**	**PM**		
Robotics VEX IQ Animals	Ages 10-15	**AM**	**PM**			**AM**	**PM**
Robotics VEX IQ Vehicles	Ages 10-15	**PM**	**AM**			**PM**	**AM**
Shark Tank Entrepreneur	Ages 10-14	**AM**					**PM**
Shockingly Sticky Science	Ages 7-10						**AM**
STEAM challenges with littleBits ®	Ages 8-11	**AM**	**PM**				
Stop-Action Animation	Ages 8-13	**AM**			**PM**		
Video Game Creation Advanced	Ages 10-14			**PM**			
Video Game Creation Beginners	Ages 8-13			**AM**			
Virtual Reality	Ages 10-14	**AM, PM**	**AM, PM**				**AM, PM**
Vocabulary and Grammar Games	Ages 8-10			**PM**			
War and Peace Games - Game Theory	Ages 10-14			**PM**			
Website Design with Wordpress	Ages 8-13	**AM**					**PM**
Wee STEAMers Pre-K Camp	Ages 3-4						**AM, PM**
Youngster - Left Brain Mix	Ages 5-7						**PM**
Youngster - Programming with Dash & Dot	Ages 5-7						**AM**
Youngster - Right Brain Mix	Ages 5-7						**AM**
Youngster - WeDo Robotics	Ages 5-7						**PM**
Youngster - WeDo Robotics Level 2	Ages 6-8	**PM**	**AM**				
YouTube Video Creation	Ages 8-13	**AM**		**PM**	**PM**		**AM**

SCHEDULES – NJ – MONTCLAIR

MONTCLAIR 2019 CLASS SCHEDULE

Week 3 - July 8 - July 12			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
App Design Using App Inventor	Ages 10-14	Chemical Engineering: Polymers & Bioplastics	Ages 8-13
Civil Engineering - Bridges and Buildings	Ages 8-13	Drone Programming	Ages 10-14
Drone Programming	Ages 10-14	Math Competition Training	Ages 8-13
Investment Literacy and Stock Market Game	Ages 8-13	Minecraft and Coding	Ages 10-14
Minecraft and Chemistry	Ages 10-14	Roblox Game Development	Ages 10-14

Week 4 - July 15 - July 19			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Electrical Engineering with Makey-Makey	Ages 8-13	Engineering and Programming with Arduino	Ages 10-14
Eureka! The Inventors' Camp	Ages 7-10	Graphic Design and GIMP	Ages 8-13
Shark Tank Entrepreneur	Ages 10-14	Lemonade Stand Entrepreneur	Ages 8-10
Virtual Reality	Ages 10-14	Shockingly Sticky Science	Ages 7-10
Website Design with Wordpress	Ages 8-13	Virtual Reality	Ages 10-14

Week 5 - July 22 - July 26			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Creative Writing Workshop	Ages 8-13	Anatomy and Surgical Techniques	Ages 10-14
Forensic Science	Ages 10-14	Minecraft Creative - The Engineer in You	Ages 8-13
Minecraft Math	Ages 8-13	Programming - Scratch - Easy	Ages 7-10
Programming - Scratch - Easy	Ages 7-10	Public Speaking and Youth Leadership	Ages 8-13
Robotics VEX IQ Animals	Ages 10-15	Robotics VEX IQ Vehicles	Ages 10-15

Week 6 - July 29 - August 2			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Engineering of Ice Cream	Ages 8-13	Engineering - Flight and Aerospace	Ages 8-13
Escape Room Creation	Ages 8-13	Minecraft Advanced	Ages 10-14
Minecraft Survival for Beginners	Ages 5-10	Robotics Lego ® Vehicles	Ages 8-13
Robotics Lego ® Animals	Ages 8-13	Video Game Creation Advanced	Ages 10-14
Video Game Creation Beginners	Ages 8-13	War and Peace Games - Game Theory	Ages 10-14

Week 7 - August 5 - August 9			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
3D Printing	Ages 10-14	3D Printing	Ages 10-14
Drone Programming	Ages 10-14	App Design Using App Inventor	Ages 10-14
Math Competition Training	Ages 8-13	Drone Programming	Ages 10-14
Minecraft and Coding	Ages 10-14	Investment Literacy and Stock Market Game	Ages 8-13
Roblox Game Development	Ages 10-14	Minecraft and Chemistry	Ages 10-14

Week 8 - August 12 - August 16			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Chemical Engineering: Polymers & Bioplastics	Ages 8-13	Civil Engineering - Bridges and Buildings	Ages 8-13
Engineering and Programming with Arduino	Ages 10-14	Website Design with Wordpress	Ages 8-13
Graphic Design and GIMP	Ages 8-13	Shark Tank Entrepreneur	Ages 10-14
Lemonade Stand Entrepreneur	Ages 8-10	Electrical Engineering with Makey-Makey	Ages 8-13
Virtual Reality	Ages 10-14	Virtual Reality	Ages 10-14

MONTCLAIR - 2019		Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
(AM = 9:00-12:30 ; PM = 1:30 - 5:00)		July 8-12	July 15-19	July 22-26	July 29-Aug 2	Aug 5-9	Aug 12-16
3D Printing	Ages 10-14					AM, PM	
Anatomy and Surgical Techniques	Ages 10-14			PM			
App Design Using App Inventor	Ages 10-14	AM				PM	
Chemical Engineering: Polymers & Bioplastics	Ages 10-14	PM					AM
Civil Engineering - Bridges and Buildings	Ages 8-11	AM					PM
Creative Writing Workshop	Ages 8-13			AM			
Drone Programming	Ages 10-14	AM, PM					
Drone Programming	Ages 10-14					AM, PM	
Electrical Engineering with Makey-Makey	Ages 8-13		AM				PM
Engineering - Flight and Aerospace	Ages 8-11				PM		
Engineering and Programming with Arduino	Ages 10-14		PM				AM
Engineering of Ice Cream	Ages 8-13				AM		
Escape Room Creation	Ages 8-13				AM		
Eureka! The Inventors' Camp	Ages 7-10		AM				
Forensic Science	Ages 10-14			AM			
Graphic Design and GIMP	Ages 8-13		PM				AM
Investment Literacy and Stock Market Game	Ages 10-14	AM				PM	
Lemonade Stand Entrepreneur	Ages 8-10		PM				AM
Math Competition Training	Ages 10-14	PM				AM	
Minecraft Advanced	Ages 10-14				PM		
Minecraft and Chemistry	Ages 10-14	AM				PM	
Minecraft and Coding	Ages 10-14	PM				AM	
Minecraft Creative - The Engineer in You	Ages 8-13			PM			
Minecraft Math	Ages 8-13			AM			
Minecraft Survival for Beginners	Ages 5-10				AM		
Programming - Scratch - Easy	Ages 7-10			AM, PM			
Public Speaking and Youth Leadership	Ages 8-13			PM			
Roblox Game Development	Ages 10-14	PM				AM	
Robotics Lego ® Animals	Ages 8-10				AM		
Robotics Lego ® Vehicles	Ages 8-10				PM		
Robotics VEX IQ Animals	Ages 10-15			AM			
Robotics VEX IQ Vehicles	Ages 10-15			PM			
Shark Tank Entrepreneur	Ages 10-14		AM				PM
Shockingly Sticky Science	Ages 7-10		PM				
Video Game Creation Advanced	Ages 10-14				PM		
Video Game Creation Beginners	Ages 8-13				AM		
Virtual Reality	Ages 10-14		AM, PM				AM, PM
War and Peace Games - Game Theory	Ages 10-14				PM		
Website Design with Wordpress	Ages 8-13		AM				PM

SCHEDULES – NJ – OAKLAND 1/2

OAKLAND 2019 CLASS SCHEDULE

Week 3 - July 8 - July 12			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
AdventureQuest- Leadership Games	Ages 5-10	Comic Creation	Ages 8-13
Canvas Painting	Ages 8-13	Engineering Discovery Workshop	Ages 7-10
Engineering - Flight and Aerospace	Ages 8-13	Engineering of Ice Cream	Ages 8-13
Minecraft Advanced	Ages 10-14	Escape Room Creation	Ages 8-13
Programming in Python - Introduction	Ages 10-14	Minecraft Survival for Beginners	Ages 5-10
Robotics VEX IQ Animals	Ages 10-15	Programming in Java - Introduction	Ages 13-15
Video Game Creation Advanced	Ages 10-14	Robotics VEX IQ Vehicles	Ages 10-15
War and Peace Games - Game Theory	Ages 10-14	Video Game Creation Beginners	Ages 8-13
Youngster - Right Brain Mix	Ages 5-7	Youngster - Left Brain Mix	Ages 5-7

Week 4 - July 15 - July 19			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
App Design Using App Inventor	Ages 10-14	Chemical Engineering: Polymers & Bioplastics	Ages 8-13
Civil Engineering - Bridges and Buildings	Ages 8-13	Detective/Spy Lab	Ages 7-10
Crazy Chemworks	Ages 7-10	Drone Programming	Ages 10-14
Drone Programming	Ages 10-14	Math Competition Training	Ages 8-13
Fashion and The Sewing Machine	Ages 8-13	Minecraft and Coding	Ages 10-14
Investment Literacy and Stock Market Game	Ages 8-13	Mixed Media Studio Art	Ages 8-13
Minecraft and Chemistry	Ages 10-14	Roblox Game Development	Ages 10-14
Robotics VEX IQ Vehicles	Ages 10-15	Robotics VEX IQ Animals	Ages 10-15
Youngster - Left Brain Mix	Ages 5-7	Youngster - Right Brain Mix	Ages 5-7

Week 5 - July 22 - July 26			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
3D Printing	Ages 10-14	3D Printing	Ages 10-14
AdventureQuest- Leadership Games	Ages 5-10	Engineering and Programming with Arduino	Ages 10-14
Electrical Engineering with Makey-Makey	Ages 8-13	Engineering Discovery Workshop	Ages 7-10
Eureka! The Inventors' Camp	Ages 7-10	Film-Making	Ages 8-13
Shark Tank Entrepreneur	Ages 10-14	Graphic Design and GIMP	Ages 8-13
Stop-Action Animation	Ages 8-13	Lemonade Stand Entrepreneur	Ages 8-10
Virtual Reality	Ages 10-14	Shockingly Sticky Science	Ages 7-10
Website Design with Wordpress	Ages 8-13	Virtual Reality	Ages 10-14

Week 6 - July 29 - August 2			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
3D Printing	Ages 10-14	3D Printing	Ages 10-14
Comic Creation	Ages 8-13	Anatomy and Surgical Techniques	Ages 10-14
Creative Writing Workshop	Ages 8-13	Canvas Painting	Ages 8-13
Forensic Science	Ages 10-14	Fashion Design on the Computer	Ages 8-13
Minecraft Math	Ages 8-13	Minecraft Creative - The Engineer in You	Ages 8-13
Pre-Architecture	Ages 10-14	Programming - Scratch - Easy	Ages 7-10
Programming - Scratch - Easy	Ages 7-10	Public Speaking and Youth Leadership	Ages 8-13
Youngster - Left Brain Mix	Ages 5-7	Youngster - Right Brain Mix	Ages 5-7

SCHEDULES – NJ – OAKLAND 2/2

Week 7 - August 5 - August 9			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Engineering Discovery Workshop	Ages 7-10	AdventureQuest- Leadership Games	Ages 5-10
Engineering of Ice Cream	Ages 8-13	Engineering - Flight and Aerospace	Ages 8-13
Escape Room Creation	Ages 8-13	Fashion and The Sewing Machine	Ages 8-13
GIRLS ONLY: Robotics, Engineering & Computer Science	Ages 7-9	GIRLS ONLY: Robotics, Engineering & Computer Science	Ages 9-11
Minecraft Survival for Beginners	Ages 5-10	Minecraft Advanced	Ages 10-14
Mixed Media Studio Art	Ages 8-13	Programming in Python - Introduction	Ages 10-14
Programming in Java - Introduction	Ages 13-15	Robotics Lego ® Vehicles	Ages 8-13
Robotics Lego ® Animals	Ages 8-13	Video Game Creation Advanced	Ages 10-14
Video Game Creation Beginners	Ages 8-13	War and Peace Games - Game Theory	Ages 10-14
Youngster - Right Brain Mix	Ages 5-7	Youngster - Left Brain Mix	Ages 5-7

Week 8 - August 12 - August 16			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Chemical Engineering: Polymers & Bioplastics	Ages 8-13	App Design Using App Inventor	Ages 10-14
Detective/Spy Lab	Ages 7-10	Civil Engineering - Bridges and Buildings	Ages 8-13
Drone Programming	Ages 10-14	Crazy Chemworks	Ages 7-10
Film-Making	Ages 8-13	Drone Programming	Ages 10-14
Math Competition Training	Ages 8-13	Investment Literacy and Stock Market Game	Ages 8-13
Minecraft and Coding	Ages 10-14	Minecraft and Chemistry	Ages 10-14
Roblox Game Development	Ages 10-14	Robotics VEX IQ Vehicles	Ages 10-15
Robotics VEX IQ Animals	Ages 10-15	Stop-Action Animation	Ages 8-13
Youngster - WeDo Robotics	Ages 5-7	Youngster - Scratch Junior	Ages 5-7

OAKLAND - 2019		Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
(AM = 9:00-12:30 ; PM = 1:30 - 5:00)		July 8-12	July 15-19	July 22-26	July 29-Aug 2	Aug 5-9	Aug 12-16
3D Printing	Ages 10-14			AM, PM	AM, PM		
AdventureQuest- Leadership Games	Ages 5-10	AM		AM, PM		PM	
Anatomy and Surgical Techniques	Ages 10-14				PM		
App Design Using App Inventor	Ages 10-14		AM				PM
Canvas Painting	Ages 8-13	AM			PM		
Chemical Engineering: Polymers & Bioplastics	Ages 10-14		PM			PM	AM
Civil Engineering - Bridges and Buildings	Ages 8-11		AM				PM
Comic Creation	Ages 8-13	PM			AM		
Crazy Chemworks	Ages 7-10		AM				PM
Creative Writing Workshop	Ages 8-13				AM		
Detective/Spy Lab	Ages 7-10		PM				AM
Drone Programming	Ages 10-14		AM, PM				AM, PM
Electrical Engineering with Makey-Makey	Ages 8-13			AM			
Engineering - Flight and Aerospace	Ages 8-11	AM				PM	
Engineering and Programming with Arduino	Ages 10-14			PM			
Engineering Discovery Workshop	Ages 7-10	PM		PM		AM	
Engineering of Ice Cream	Ages 8-13	PM				AM	
Escape Room Creation	Ages 8-13	PM				AM	
Eureka! The Inventors' Camp	Ages 7-10			AM			
Fashion and The Sewing Machine	Ages 8-13		AM			PM	
Fashion Design on the Computer	Ages 8-13				PM		
Film-Making	Ages 8-13			PM			AM
Forensic Science	Ages 10-14				AM		
GIRLS ONLY: Programming in Scratch and Hopsctoch	Ages 8-11						AM
GIRLS ONLY: Robotics	Ages 11-15						PM
GIRLS ONLY: Robotics-Engineering-Computer Science	Ages 7-9					AM	
GIRLS ONLY: Robotics-Engineering-Computer Science	Ages 9-11					PM	
Graphic Design and GIMP	Ages 8-13			PM			
Investment Literacy and Stock Market Game	Ages 10-14		AM				PM
Lemonade Stand Entrepreneur	Ages 8-10			PM			
Math Competition Training	Ages 10-14		PM				PM
Minecraft Advanced	Ages 10-14	AM				PM	
Minecraft and Chemistry	Ages 10-14		AM				PM
Minecraft and Coding	Ages 10-14		PM				AM
Minecraft Creative - The Engineer in You	Ages 8-13				PM		
Minecraft Math	Ages 8-13				AM		
Minecraft Survival for Beginners	Ages 5-10	PM				AM	
Mixed Media Studio Art	Ages 8-13		PM			AM	
Pre-Architecture	Ages 10-14				AM		
Programming - Scratch - Easy	Ages 7-10				AM, PM		
Programming in Java - Introduction	Ages 13-15	PM				AM	
Programming in Python - Introduction	Ages 10-14	AM				PM	
Public Speaking and Youth Leadership	Ages 8-13				PM		
Roblox Game Development	Ages 10-14		PM				AM
Robotics Lego ® Animals	Ages 8-10					AM	
Robotics Lego ® Vehicles	Ages 8-10					PM	
Robotics VEX IQ Animals	Ages 10-15	AM	PM				AM
Robotics VEX IQ Vehicles	Ages 10-15	PM	AM				PM
Shark Tank Entrepreneur	Ages 10-14			AM			
Shockingly Sticky Science	Ages 7-10			PM			
Stop-Action Animation	Ages 8-13			AM			PM
Video Game Creation Advanced	Ages 10-14	AM				PM	
Video Game Creation Beginners	Ages 8-10	PM					
Virtual Reality	Ages 10-14			AM, PM			
War and Peace Games - Game Theory	Ages 10-14	AM				PM	
Website Design with Wordpress	Ages 8-13			AM			
Youngster - Left Brain Mix	Ages 5-7	PM	AM		AM	PM	
Youngster - Right Brain Mix	Ages 5-7	AM	PM		PM	AM	
Youngster - Scratch Junior	Ages 5-7						PM
Youngster - WeDo Robotics	Ages 5-7						AM

SCHEDULES – NJ – PARAMUS

PARAMUS 2019 CLASS SCHEDULE

Week 3 - July 8 - July 12			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
3D Printing	Ages 10-14	3D Printing	Ages 10-14
Anatomy and Surgical Techniques	Ages 10-14	Creative Writing Workshop	Ages 8-13
Film-Making	Ages 8-13	Forensic Science	Ages 10-14
Minecraft Creative - The Engineer in You	Ages 8-13	Minecraft Math	Ages 8-13
Programming - Scratch - Easy	Ages 7-10	Programming - Scratch - Easy	Ages 7-10
Public Speaking and Youth Leadership	Ages 8-13	Robotics Lego ® Vehicles	Ages 8-13
Robotics Lego ® Animals	Ages 8-13	Stop-Action Animation	Ages 8-13

Week 4 - July 15 - July 19			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
3D Printing	Ages 10-14	3D Printing	Ages 10-14
Engineering - Flight and Aerospace	Ages 8-13	Engineering of Ice Cream	Ages 8-13
Minecraft Advanced	Ages 10-14	Escape Room Creation	Ages 8-13
Programming in Python - Introduction	Ages 10-14	Minecraft Survival for Beginners	Ages 5-10
Robotics Lego ® Vehicles	Ages 8-13	Programming in Java - Introduction	Ages 13-15
Video Game Creation Advanced	Ages 10-14	Robotics Lego ® Animals	Ages 8-13
War and Peace Games - Game Theory	Ages 10-14	Video Game Creation Beginners	Ages 8-13

Week 5 - July 22 - July 26			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
App Design Using App Inventor	Ages 10-14	Action Flix	Ages 8-11
Civil Engineering - Bridges and Buildings	Ages 8-13	Chemical Engineering: Polymers & Bioplastics	Ages 8-13
Crazy Chemworks	Ages 7-10	Detective/Spy Lab	Ages 7-10
Drone Programming	Ages 10-14	Drone Programming	Ages 10-14
Investment Literacy and Stock Market Game	Ages 8-13	Math Competition Training	Ages 8-13
Lego Flix	Ages 6-10	Minecraft and Coding	Ages 10-14
Minecraft and Chemistry	Ages 10-14	Roblox Game Development	Ages 10-14
Robotics Lego ® Animals	Ages 8-13	Robotics Lego ® Vehicles	Ages 8-13

Week 6 - July 29 - August 2			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
AdventureQuest- Leadership Games	Ages 5-10	Graphic Design and GIMP	Ages 8-13
Electrical Engineering with Makey-Makey	Ages 8-13	Film-Making	Ages 8-13
Eureka! The Inventors' Camp	Ages 7-10	Lemonade Stand Entrepreneur	Ages 8-10
Shark Tank Entrepreneur	Ages 10-14	Engineering and Programming with Arduino	Ages 10-14
Stop-Action Animation	Ages 8-13	Virtual Reality	Ages 10-14
Virtual Reality	Ages 10-14	Engineering Discovery Workshop	Ages 7-10
Website Design with Wordpress	Ages 8-13	Shockingly Sticky Science	Ages 7-10

Week 7 - August 5 - August 9			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Comic Creation	Ages 8-13	Anatomy and Surgical Techniques	Ages 10-14
Creative Writing Workshop	Ages 8-13	Canvas Painting	Ages 8-13
Forensic Science	Ages 10-14	Fashion Design on the Computer	Ages 8-13
Minecraft Math	Ages 8-13	Minecraft Creative - The Engineer in You	Ages 8-13
Pre-Architecture	Ages 10-14	Programming - Scratch - Easy	Ages 7-10
Programming - Scratch - Easy	Ages 7-10	Public Speaking and Youth Leadership	Ages 8-13
Robotics VEX IQ Animals	Ages 10-15	Robotics VEX IQ Vehicles	Ages 10-15

Week 8 - August 12 - August 16			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Engineering of Ice Cream	Ages 8-13	Engineering - Flight and Aerospace	Ages 8-13
Escape Room Creation	Ages 8-13	Fashion and The Sewing Machine	Ages 8-13
Minecraft Survival for Beginners	Ages 5-10	Minecraft Advanced	Ages 10-14
Mixed Media Studio Art	Ages 8-13	Programming in Python - Introduction	Ages 10-14
Programming in Java - Introduction	Ages 13-15	Robotics VEX IQ Animals	Ages 10-15
Robotics VEX IQ Vehicles	Ages 10-15	Video Game Creation Advanced	Ages 10-14
Video Game Creation Beginners	Ages 8-13	War and Peace Games - Game Theory	Ages 10-14

PARAMUS - 2019		Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
(AM = 9:00-12:30 ; PM = 1:30 - 5:00)		July 8-12	July 15-19	July 22-26	July 29-Aug 2	Aug 5-9	Aug 12-16
3D Printing	Ages 10-14	AM, PM	AM, PM				
Action Flix	Ages 8-11			PM			
AdventureQuest- Leadership Games	Ages 5-10				AM		
Anatomy and Surgical Techniques	Ages 10-14	AM				PM	
App Design Using App Inventor	Ages 10-14			AM			
Canvas Painting	Ages 8-13					PM	
Chemical Engineering: Polymers & Bioplastics	Ages 10-14			PM			
Civil Engineering - Bridges and Buildings	Ages 8-11			AM			
Comic Creation	Ages 8-13					AM	
Crazy Chemworks	Ages 7-10			AM			
Creative Writing Workshop	Ages 8-13	PM				AM	
Detective/Spy Lab	Ages 7-10			PM			
Drone Programming	Ages 10-14			AM, PM			
Electrical Engineering with Makey-Makey	Ages 8-13				AM		
Engineering - Flight and Aerospace	Ages 8-11		AM				PM
Engineering and Programming with Arduino	Ages 10-14				PM		
Engineering Discovery Workshop	Ages 7-10				PM		
Engineering of Ice Cream	Ages 8-13		PM				AM
Escape Room Creation	Ages 8-13		PM				AM
Eureka! The Inventors' Camp	Ages 7-10				AM		
Fashion and The Sewing Machine	Ages 8-13						PM
Fashion Design on the Computer	Ages 8-13					PM	
Film-Making	Ages 8-13	AM			PM		
Forensic Science	Ages 10-14	PM				AM	
Graphic Design and GIMP	Ages 8-13				PM		
Lego Flix	Ages 6-10			AM			
Lemonade Stand Entrepreneur	Ages 8-10				PM		
Math Competition Training	Ages 10-14			PM			
Minecraft Advanced	Ages 10-14		AM				PM
Minecraft and Chemistry	Ages 10-14			AM			
Minecraft and Coding	Ages 10-14			PM			
Minecraft Creative - The Engineer in You	Ages 8-13	AM				PM	
Minecraft Math	Ages 8-13	PM				AM	
Minecraft Survival for Beginners	Ages 5-10		PM				AM
Mixed Media Studio Art	Ages 8-13						AM
Pre-Architecture	Ages 10-14					AM	
Programming - Scratch - Easy	Ages 7-10	AM, PM				AM, PM	
Programming in Java - Introduction	Ages 13-15		PM				AM
Programming in Python - Introduction	Ages 10-14		AM				PM
Public Speaking and Youth Leadership	Ages 8-13	AM				PM	
Roblox Game Development	Ages 10-14			Pm			
Robotics Lego ® Animals	Ages 8-10	AM	PM	AM			
Robotics Lego ® Vehicles	Ages 8-10	PM	AM	PM			
Robotics VEX IQ Animals	Ages 10-15					AM	PM
Robotics VEX IQ Vehicles	Ages 10-15					PM	AM
Shark Tank Entrepreneur	Ages 10-14				AM		
Shockingly Sticky Science	Ages 7-10				PM		
Stop-Action Animation	Ages 8-13	PM			AM		
Video Game Creation Advanced	Ages 10-14		AM				PM
Video Game Creation Beginners	Ages 8-10		PM				AM
Virtual Reality	Ages 10-14				AM, PM		
War and Peace Games - Game Theory	Ages 10-14		AM				PM
Website Design with Wordpress	Ages 8-13				AM		

SCHEDULES – NJ – PRINCETON 1/1

PRINCETON 2019 CLASS SCHEDULE

Week 3 - July 8 - July 12			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Engineering - Flight and Aerospace	Ages 8-13	Engineering of Ice Cream	Ages 8-13
Minecraft Advanced	Ages 10-14	Escape Room Creation	Ages 8-13
Programming in Python - Introduction	Ages 10-14	Minecraft Survival for Beginners	Ages 5-10
Robotics VEX IQ Animals	Ages 10-15	Programming in Java - Introduction	Ages 13-15
Video Game Creation Beginners	Ages 8-13	Robotics VEX IQ Vehicles	Ages 10-15
War and Peace Games - Game Theory	Ages 10-14	Video Game Creation Advanced	Ages 10-14
Youngster - Right Brain Mix	Ages 5-7	Youngster - Left Brain Mix	Ages 5-7

Week 4 - July 15 - July 19			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
App Design Using App Inventor	Ages 10-14	Chemical Engineering: Polymers & Bioplastics	Ages 8-13
Civil Engineering - Bridges and Buildings	Ages 8-13	Drone Programming	Ages 10-14
Drone Programming	Ages 10-14	Math Competition Training	Ages 8-13
Investment Literacy and Stock Market Game	Ages 8-13	Minecraft and Coding	Ages 10-14
Minecraft and Chemistry	Ages 10-14	Roblox Game Development	Ages 10-14
Robotics VEX IQ Vehicles	Ages 10-15	Robotics VEX IQ Animals	Ages 10-15
Youngster - Left Brain Mix	Ages 5-7	Youngster - Right Brain Mix	Ages 5-7

Week 5 - July 22 - July 26			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
3D Printing	Ages 10-14	3D Printing	Ages 10-14
Anatomy and Surgical Techniques	Ages 10-14	Comic Creation	Ages 8-13
Canvas Painting	Ages 8-13	Engineering and Programming with Arduino	Ages 10-14
Electrical Engineering with Makey-Makey	Ages 8-13	Forensic Science	Ages 10-14
GIRLS ONLY: Robotics	Ages 11-15	GIRLS ONLY: Programming in Scratch and Hopscotch	Ages 8-11
Shark Tank Entrepreneur	Ages 10-14	Graphic Design and GIMP	Ages 8-13
Virtual Reality	Ages 10-14	Lemonade Stand Entrepreneur	Ages 8-10
Website Design with Wordpress	Ages 8-13	Virtual Reality	Ages 10-14
Youngster - Programming with Dash & Dot	Ages 5-7	Youngster - WeDo Robotics	Ages 5-7

Week 6 - July 29 - August 2			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
3D Printing	Ages 10-14	3D Printing	Ages 10-14
Comic Creation	Ages 8-13	Anatomy and Surgical Techniques	Ages 10-14
Creative Writing Workshop	Ages 8-13	Canvas Painting	Ages 8-13
Forensic Science	Ages 10-14	Fashion Design on the Computer	Ages 8-13
GIRLS ONLY: Robotics, Engineering & Computer Science	Ages 7-9	GIRLS ONLY: Robotics, Engineering & Computer Science	Ages 9-11
Minecraft Math	Ages 8-13	Minecraft Creative - The Engineer in You	Ages 8-13
Pre-Architecture	Ages 10-14	Programming - Scratch - Easy	Ages 7-10
Programming - Scratch - Easy	Ages 7-10	Public Speaking and Youth Leadership	Ages 8-13
Youngster - Left Brain Mix	Ages 5-7	Youngster - Right Brain Mix	Ages 5-7

Week 7 - August 5 - August 9			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Engineering of Ice Cream	Ages 8-13	Engineering - Flight and Aerospace	Ages 8-13
Escape Room Creation	Ages 8-13	Minecraft Advanced	Ages 10-14
Minecraft Survival for Beginners	Ages 5-10	Programming in Python - Introduction	Ages 10-14
Programming in Java - Introduction	Ages 13-15	Robotics Lego ® Vehicles	Ages 8-13
Robotics Lego ® Animals	Ages 8-13	Video Game Creation Beginners	Ages 8-13
Video Game Creation Advanced	Ages 10-14	War and Peace Games - Game Theory	Ages 10-14
Youngster - Right Brain Mix	Ages 5-7	Youngster - Left Brain Mix	Ages 5-7

Week 8 - August 12 - August 16			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Chemical Engineering: Polymers & Bioplastics	Ages 8-13	App Design Using App Inventor	Ages 10-14
Drone Programming	Ages 10-14	Investment Literacy and Stock Market Game	Ages 8-13
Math Competition Training	Ages 8-13	Minecraft and Chemistry	Ages 10-14
Minecraft and Coding	Ages 10-14	Drone Programming	Ages 10-14
Pre-Law	Ages 10-14	Robotics VEX IQ Vehicles	Ages 10-15
Roblox Game Development	Ages 10-14	Civil Engineering - Bridges and Buildings	Ages 8-13
Robotics VEX IQ Animals	Ages 10-15	Youngster - Scratch Junior	Ages 5-7
Youngster - WeDo Robotics	Ages 5-7	Leadership Games for Older Kids	Ages 10-14

PRINCETON - 2019		Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
(AM = 9:00-12:30 ; PM = 1:30 - 5:00)		July 8-12	July 15-19	July 22-26	July 29-Aug 2	Aug 5-9	Aug 12-16
3D Printing	Ages 10-14			AM, PM	AM, PM		
Anatomy and Surgical Techniques	Ages 10-14			AM	PM		
App Design Using App Inventor	Ages 10-14		AM				PM
Canvas Painting	Ages 8-13			AM	PM		
Chemical Engineering: Polymers & Bioplastics	Ages 10-14		PM				AM
Civil Engineering - Bridges and Buildings	Ages 8-11		AM				PM
Comic Creation	Ages 8-13			PM	AM		
Creative Writing Workshop	Ages 8-13				AM		
Drone Programming	Ages 10-14		AM, PM				AM, PM
Electrical Engineering with Makey-Makey	Ages 8-13			AM			
Engineering - Flight and Aerospace	Ages 8-11	AM				PM	
Engineering and Programming with Arduino	Ages 10-14			PM			
Engineering of Ice Cream	Ages 8-13	PM				AM	
Escape Room Creation	Ages 8-13	PM				AM	
Fashion Design on the Computer	Ages 8-13				PM		
Forensic Science	Ages 10-14			PM	AM		
GIRLS ONLY: Programming in Scratch and Hopscotch	Ages 8-11			PM			
GIRLS ONLY: Robotics	Ages 11-15			AM			
GIRLS ONLY: Robotics-Engineering-Computer Science	Ages 7-9				AM		
GIRLS ONLY: Robotics-Engineering-Computer Science	Ages 9-11				PM		
Graphic Design and GIMP	Ages 8-13			PM			
Investment Literacy and Stock Market Game	Ages 10-14		AM				PM
Leadership Games for Older Kids	Ages 10-14						PM
Lemonade Stand Entrepreneur	Ages 8-10			PM			
Math Competition Training	Ages 10-14		PM				AM
Minecraft Advanced	Ages 10-14	AM				PM	
Minecraft and Chemistry	Ages 10-14		AM				PM
Minecraft and Coding	Ages 10-14		PM				AM
Minecraft Creative - The Engineer in You	Ages 8-13				PM		
Minecraft Math	Ages 8-13				AM		
Minecraft Survival for Beginners	Ages 5-10	PM				AM	
Pre-Architecture	Ages 10-14				AM		
Pre-Law	Ages 10-14						AM
Programming - Scratch - Easy	Ages 7-10				AM, PM		
Programming in Java - Introduction	Ages 13-15	PM				AM	
Programming in Python - Introduction	Ages 10-14	AM				PM	
Public Speaking and Youth Leadership	Ages 8-13				PM		
Roblox Game Development	Ages 10-14		PM				AM
Robotics Lego ® Animals	Ages 8-10					AM	
Robotics Lego ® Vehicles	Ages 8-10					PM	
Robotics VEX IQ Animals	Ages 10-15	AM	PM				AM
Robotics VEX IQ Vehicles	Ages 10-15	PM	AM				PM
Shark Tank Entrepreneur	Ages 10-14			AM			
Video Game Creation Advanced	Ages 10-14	PM				AM	
Video Game Creation Beginners	Ages 8-10	AM				PM	
Virtual Reality	Ages 10-14			AM, PM			
War and Peace Games - Game Theory	Ages 10-14	AM				PM	
Website Design with Wordpress	Ages 8-13			AM			
Youngster - Left Brain Mix	Ages 5-7	PM	AM		AM	PM	
Youngster - Programming with Dash & Dot	Ages 5-7			AM			
Youngster - Right Brain Mix	Ages 5-7	AM	PM		PM	AM	
Youngster - Scratch Junior	Ages 5-7						PM
Youngster - WeDo Robotics	Ages 5-7			PM			
Youngster - WeDo Robotics	Ages 5-7						AM

SCHEDULES – NJ – SCOTCH PLAINS 1/1

SCOTCH PLAINS 2019 CLASS SCHEDULE

Week 2 - July 1 - July 5 (closed July 4)			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Electrical Engineering with Makey-Makey	Ages 8-13	App Design Using Game Salad (Apple ios)	Ages 10-14
Eureka! The Inventors' Camp	Ages 7-10	Engineering and Programming with Arduino	Ages 10-14
Programming - Hopscotch	Ages 9-11	Graphic Design and GIMP	Ages 8-13
Robotics Lego ® Vehicles	Ages 8-10	Robotics Lego ® Animals	Ages 8-10
Website Design with Wordpress	Ages 8-13	Shockingly Sticky Science	Ages 7-10

Week 3 - July 8 - July 12			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
3D Printing	Ages 10-14	3D Printing	Ages 10-14
Creative Writing Workshop	Ages 8-13	Anatomy and Surgical Techniques	Ages 10-14
Forensic Science	Ages 10-14	Programming - Scratch - Easy	Ages 7-10
Programming - Scratch - Easy	Ages 7-10	Public Speaking and Youth Leadership	Ages 8-13
Robotics VEX IQ Animals	Ages 10-15	Robotics VEX IQ Vehicles	Ages 10-15

Week 4 - July 15 - July 19			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Escape Room Creation	Ages 8-13	Minecraft Advanced	Ages 10-14
Minecraft Survival for Beginners	Ages 5-10	Programming in Python - Introduction	Ages 10-14
Programming in Java - Introduction	Ages 13-15	Robotics VEX IQ Animals	Ages 10-15
Robotics VEX IQ Vehicles	Ages 10-15	Video Game Creation Beginners	Ages 8-10
Video Game Creation Advanced	Ages 10-14	War and Peace Games - Game Theory	Ages 10-14

Week 5 - July 22 - July 26			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Chemical Engineering: Polymers & Bioplastics	Ages 10-14	App Design Using App Inventor	Ages 10-14
Detective/Spy Lab	Ages 7-10	Civil Engineering - Bridges and Buildings	Ages 8-11
Math Competition Training	Ages 10-14	Crazy Chemworks	Ages 7-10
Roblox Game Development	Ages 10-14	Investment Literacy and Stock Market Game	Ages 10-14
Youngster - WeDo Robotics	Ages 5-7	Youngster - Scratch Junior	Ages 5-7

Week 6 - July 29 - August 2			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Engineering and Programming with Arduino	Ages 10-14	Electrical Engineering with Makey-Makey	Ages 8-13
Graphic Design and GIMP	Ages 8-13	Math & Problem-Solving Games	Ages 8-10
Minecraft Creative - The Engineer in You	Ages 8-13	Minecraft Advanced	Ages 10-14
Virtual Reality	Ages 10-14	Virtual Reality	Ages 10-14
Vocabulary and Grammar Games	Ages 8-10	Website Design with Wordpress	Ages 8-13
Youngster - Programming with Dash & Dot	Ages 5-7	Youngster - WeDo Robotics	Ages 5-7

Week 7 - August 5 - August 9			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Anatomy and Surgical Techniques	Ages 10-14	Creative Writing Workshop	Ages 8-13
Fashion Design on the Computer	Ages 8-13	Forensic Science	Ages 10-14
Film-Making	Ages 8-13	Pre-Architecture	Ages 10-14
Programming - Scratch - Easy	Ages 7-10	Programming - Scratch - Easy	Ages 7-10
Public Speaking and Youth Leadership	Ages 8-13	Stop-Action Animation	Ages 8-13

Week 8 - August 12 - August 16			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
3D Printing	Ages 10-14	3D Printing	Ages 10-14
Engineering - Flight and Aerospace	Ages 8-11	Engineering of Ice Cream	Ages 8-13
Programming in Python - Introduction	Ages 10-14	Programming in Java - Introduction	Ages 13-15
Robotics Lego ® Vehicles	Ages 8-10	Robotics Lego ® Animals	Ages 8-10
Video Game Creation Advanced	Ages 10-14	Video Game Creation Beginners	Ages 8-13

SCOTCH PLAINS - 2019		Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
(AM = 9:00-12:30 ; PM = 1:30-5:00)		July 1-5	July 8-12	July 15-19	July 22-26	July 29-Aug 2	Aug 5-9	Aug 12-16
3D Printing	Ages 10-14		AM, PM					AM, PM
Anatomy and Surgical Techniques	Ages 10-14		PM				AM	
App Design Using App Inventor (android)	Ages 10-14				PM			
App Design Using Game Salad (Apple ios)	Ages 10-14	PM						
Chemical Engineering: Polymers & Bioplastics	Ages 10-14				AM			
Civil Engineering - Bridges and Buildings	Ages 8-11				PM			
Crazy Chemworks	Ages 7-10				PM			
Creative Writing Workshop	Ages 8-13		AM				PM	
Detective/Spy Lab	Ages 7-10				AM			
Electrical Engineering with Makey-Makey	Ages 8-13	AM				PM		
Engineering - Flight and Aerospace	Ages 8-11							AM
Engineering and Programming with Arduino	Ages 10-14	PM				AM		
Engineering of Ice Cream	Ages 8-13							PM
Escape Room Creation	Ages 8-13			AM				
Eureka! The Inventors' Camp	Ages 7-10	AM						
Fashion Design on the Computer	Ages 8-13						AM	
Film-Making	Ages 8-13						AM	
Forensic Science	Ages 10-14		AM					
Forensic Science	Ages 10-14						PM	
Graphic Design and GIMP	Ages 8-13	PM				AM		
Investment Literacy and Stock Market Game	Ages 10-14				PM			
Math & Problem-Solving Games	Ages 8-10					AM		
Math Competition Training	Ages 10-14				AM			
Minecraft Advanced	Ages 10-14			PM		PM		
Minecraft Creative - The Engineer in You	Ages 8-13					AM		
Minecraft Survival for Beginners	Ages 5-10			AM				
Pre-Architecture	Ages 10-14						PM	
Programming - Hopscotch	Ages 9-11	AM						
Programming - Scratch - Easy	Ages 7-10		AM, PM				AM, PM	
Programming in Java - Introduction	Ages 13-15			AM				PM
Programming in Python - Introduction	Ages 10-14			PM				AM
Public Speaking and Youth Leadership	Ages 8-13		PM				AM	
Roblox Game Development	Ages 10-14				AM			
Robotics Lego ® Animals	Ages 8-10	PM						PM
Robotics Lego ® Vehicles	Ages 8-10	AM						
Robotics VEX IQ Animals	Ages 10-15		AM	PM				
Robotics VEX IQ Vehicles	Ages 10-15		PM	AM				
Shockingly Sticky Science	Ages 7-10	PM						
Stop-Action Animation	Ages 8-13						PM	
Video Game Creation Advanced	Ages 10-14			AM				AM
Video Game Creation Beginners	Ages 8-10			PM				PM
Virtual Reality	Ages 10-14					AM, PM		
Vocabulary and Grammar Games	Ages 8-10					PM		
War and Peace Games - Game Theory	Ages 10-14			PM				
Website Design with Wordpress	Ages 8-13	AM				PM		
Website Design with Wordpress	Ages 8-13					AM		
Youngster - Programming with Dash & Dot	Ages 5-7					PM		
Youngster - Scratch Junior	Ages 5-7				PM			
Youngster - WeDo Robotics	Ages 5-7				AM	PM		

SCHEDULES – NJ – SOMERSET 1/2

SOMERSET 2019 CLASS SCHEDULE

Week 3 - July 8 - July 12			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
App Design Using App Inventor	Ages 10-14	Chemical Engineering: Polymers & Bioplastics	Ages 8-13
Civil Engineering - Bridges and Buildings	Ages 8-13	Drone Programming	Ages 10-14
Drone Programming	Ages 10-14	Leadership Games for Older Kids	Ages 10-14
Investment Literacy and Stock Market Game	Ages 8-13	Math Competition Training	Ages 8-13
Minecraft and Chemistry	Ages 10-14	Minecraft and Coding	Ages 10-14
Pre-Law	Ages 10-14	Roblox Game Development	Ages 10-14
Robotics VEX IQ Vehicles	Ages 10-15	Robotics VEX IQ Animals	Ages 10-15
Youngster - Left Brain Mix	Ages 5-7	Youngster - Right Brain Mix	Ages 5-7

Week 4 - July 15 - July 19			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
3D Printing	Ages 10-14	3D Printing	Ages 10-14
Anatomy and Surgical Techniques	Ages 10-14	Comic Creation	Ages 8-13
Canvas Painting	Ages 8-13	Engineering and Programming with Arduino	Ages 10-14
Electrical Engineering with Makey-Makey	Ages 8-13	Forensic Science	Ages 10-14
Robotics VEX IQ Animals	Ages 10-15	Graphic Design and GIMP	Ages 8-13
Shark Tank Entrepreneur	Ages 10-14	Lemonade Stand Entrepreneur	Ages 8-10
Virtual Reality	Ages 10-14	Robotics VEX IQ Vehicles	Ages 10-15
Website Design with Wordpress	Ages 8-13	Virtual Reality	Ages 10-14
Youngster - Programming with Dash & Dot	Ages 5-7	Youngster - WeDo Robotics	Ages 5-7

Week 5 - July 22 - July 26			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
3D Printing	Ages 10-14	3D Printing	Ages 10-14
Creative Writing Workshop	Ages 8-13	Anatomy and Surgical Techniques	Ages 10-14
Forensic Science	Ages 10-14	Fashion Design on the Computer	Ages 8-13
Minecraft Math	Ages 8-13	Minecraft Creative - The Engineer in You	Ages 8-13
Pre-Architecture	Ages 10-14	Programming - Scratch - Easy	Ages 7-10
Programming - Scratch - Easy	Ages 7-10	Public Speaking and Youth Leadership	Ages 8-13
Robotics VEX IQ Vehicles	Ages 10-15	Robotics VEX IQ Animals	Ages 10-15
Youngster - Left Brain Mix	Ages 5-7	Youngster - Right Brain Mix	Ages 5-7

Week 6 - July 29 - August 2			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
3D Printing	Ages 10-14	3D Printing	Ages 10-14
Video Game Creation Beginners	Ages 8-13	Video Game Creation Advanced	Ages 10-14
Escape Room Creation	Ages 8-13	War and Peace Games - Game Theory	Ages 10-14
Minecraft Survival for Beginners	Ages 5-10	Minecraft Advanced	Ages 10-14
Programming in Java - Introduction	Ages 13-15	Programming in Python - Introduction	Ages 10-14
Robotics Lego ® Animals	Ages 8-13	Robotics Lego ® Vehicles	Ages 8-13
Engineering of Ice Cream	Ages 8-13	Engineering - Flight and Aerospace	Ages 8-13
Youngster - Right Brain Mix	Ages 5-7	Youngster - Left Brain Mix	Ages 5-7

Week 7 - August 5 - August 9			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Chemical Engineering: Polymers & Bioplastics	Ages 8-13	Action Flix	Ages 8-11
Drone Programming	Ages 10-14	App Design Using App Inventor	Ages 10-14
Lego Flix	Ages 6-10	Civil Engineering - Bridges and Buildings	Ages 8-13
Math Competition Training	Ages 8-13	Drone Programming	Ages 10-14
Minecraft and Coding	Ages 10-14	Investment Literacy and Stock Market Game	Ages 8-13
Roblox Game Development	Ages 10-14	Minecraft and Chemistry	Ages 10-14
Robotics Lego ® Vehicles	Ages 8-13	Robotics Lego ® Animals	Ages 8-13
Youngster - WeDo Robotics	Ages 5-7	Youngster - Scratch Junior	Ages 5-7

SCHEDULES – NJ – SOMERSET 2/2

Week 8 - August 12 - August 16			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Engineering - Flight and Aerospace	Ages 8-13	Engineering of Ice Cream	Ages 8-13
Minecraft Advanced	Ages 10-14	Escape Room Creation	Ages 8-13
Programming in Python - Introduction	Ages 10-14	Minecraft Survival for Beginners	Ages 5-10
Robotics Lego ® Animals	Ages 8-13	Programming in Java - Introduction	Ages 13-15
Video Game Creation Advanced	Ages 10-14	Robotics Lego ® Vehicles	Ages 8-13
War and Peace Games - Game Theory	Ages 10-14	Video Game Creation Beginners	Ages 8-13
Youngster - Right Brain Mix	Ages 5-7	Youngster - Left Brain Mix	Ages 5-7

SOMERSET - 2019		Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
(AM = 9:00-12:30 ; PM = 1:30 - 5:00)		July 8-12	July 15-19	July 22-26	July 29-Aug 2	Aug 5-9	Aug 12-16
3D Printing	Ages 10-14		AM, PM	AM, PM	AM, PM		
Action Flix	Ages 8-11					PM	
Anatomy and Surgical Techniques	Ages 10-14		AM	PM			
App Design Using App Inventor	Ages 10-14	AM				PM	
Canvas Painting	Ages 8-13		AM				
Chemical Engineering: Polymers & Bioplastics	Ages 10-14	PM				AM	
Civil Engineering - Bridges and Buildings	Ages 8-11	AM				PM	
Comic Creation	Ages 8-13		PM				
Creative Writing Workshop	Ages 8-13			AM			
Drone Programming	Ages 10-14	AM, PM				AM, PM	
Electrical Engineering with Makey-Makey	Ages 8-13		AM				
Engineering - Flight and Aerospace	Ages 8-11				PM		AM
Engineering and Programming with Arduino	Ages 10-14		PM				
Engineering of Ice Cream	Ages 8-13				AM		
Engineering of Ice Cream	Ages 8-13						PM
Escape Room Creation	Ages 8-13						PM
Fashion Design on the Computer	Ages 8-13			PM			
Forensic Science	Ages 10-14		PM	AM			
Graphic Design and GIMP	Ages 8-13		PM				
Investment Literacy and Stock Market Game	Ages 10-14	AM				PM	
Leadership Games for Older Kids	Ages 10-14	PM					
Lego Flix	Ages 6-10					AM	
Math Competition Training	Ages 10-14	PM				AM	
Minecraft Advanced	Ages 10-14				PM		AM
Minecraft and Chemistry	Ages 10-14	AM				PM	
Minecraft and Coding	Ages 10-14	PM				AM	
Minecraft Creative - The Engineer in You	Ages 8-13			PM			
Minecraft Math	Ages 8-13			AM			
Minecraft Survival for Beginners	Ages 5-10				AM		PM
Pre-Architecture	Ages 10-14			AM			
Pre-Law	Ages 10-14	AM					
Programming - Scratch - Easy	Ages 7-10			AM, PM			
Programming in Java - Introduction	Ages 13-15				AM		PM
Programming in Python - Introduction	Ages 10-14				PM		AM
Public Speaking and Youth Leadership	Ages 8-13			PM			
Roblox Game Development	Ages 10-14	PM				AM	
Robotics Lego ® Animals	Ages 8-10				AM	PM	AM
Robotics Lego ® Vehicles	Ages 8-10				PM	AM	PM
Robotics VEX IQ Animals	Ages 10-15	PM	AM	PM			
Robotics VEX IQ Vehicles	Ages 10-15	AM	PM	AM			
Shark Tank Entrepreneur	Ages 10-14		AM				
Video Game Creation Advanced	Ages 10-14				PM		AM
Video Game Creation Beginners	Ages 8-13				AM		PM
Virtual Reality	Ages 10-14		AM, PM				
War and Peace Games - Game Theory	Ages 10-14				PM		AM
Website Design with Wordpress	Ages 8-13		AM				
Youngster - Left Brain Mix	Ages 5-7	AM		AM	PM		PM
Youngster - Programming with Dash & Dot	Ages 5-7		AM				
Youngster - Right Brain Mix	Ages 5-7	PM		PM	AM		AM
Youngster - Scratch Junior	Ages 5-7					PM	
Youngster - WeDo Robotics	Ages 5-7		PM			AM	

SCHEDULES – NJ – STIRLING (1/2)

STIRLING 2019 CLASS SCHEDULE

Week 2 - July 1 - July 5 (closed July 4)			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
3D Printing	Ages 10-14	3D Printing	Ages 10-14
Engineering - Flight and Aerospace	Ages 8-13	Engineering of Ice Cream	Ages 8-13
Programming in Python - Introduction	Ages 10-14	Programming in Java - Introduction	Ages 13-15
Robotics Lego ® Vehicles	Ages 8-13	Robotics Lego ® Animals	Ages 8-13
Video Game Creation Advanced	Ages 10-14	Video Game Creation Beginners	Ages 8-13
Youngster - Right Brain Mix	Ages 5-7	Youngster - Left Brain Mix	Ages 5-7

Week 3 - July 8 - July 12			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
3D Printing	Ages 10-14	3D Printing	Ages 10-14
App Design Using App Inventor	Ages 10-14	Chemical Engineering: Polymers & Bioplastics	Ages 8-13
Civil Engineering - Bridges and Buildings	Ages 8-13	Math Competition Training	Ages 8-13
Investment Literacy and Stock Market Game	Ages 8-13	Raspberry Pi	Ages 10-14
Robotics Lego ® Animals	Ages 8-13	Roblox Game Development	Ages 10-14
Youngster - Left Brain Mix	Ages 5-7	Robotics Lego ® Vehicles	Ages 8-13
YouTube Video Creation	Ages 8-13	Youngster - Right Brain Mix	Ages 5-7

Week 4 - July 15 - July 19			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
AdventureQuest- Leadership Games	Ages 5-10	Engineering and Programming with Arduino	Ages 10-14
Electrical Engineering with Makey-Makey	Ages 8-13	Engineering Discovery Workshop	Ages 7-10
Robotics Lego ® Vehicles	Ages 8-13	Graphic Design and GIMP	Ages 8-13
Shark Tank Entrepreneur	Ages 10-14	Lemonade Stand Entrepreneur	Ages 8-10
Virtual Reality	Ages 10-14	Robotics Lego ® Animals	Ages 8-13
Website Design with Wordpress	Ages 8-13	Virtual Reality	Ages 10-14
Youngster - Right Brain Mix	Ages 5-7	Youngster - Left Brain Mix	Ages 5-7

Week 5 - July 22 - July 26			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Comic Creation	Ages 8-13	Anatomy and Surgical Techniques	Ages 10-14
Creative Writing Workshop	Ages 8-13	Canvas Painting	Ages 8-13
Forensic Science	Ages 10-14	Fashion Design on the Computer	Ages 8-13
Minecraft Math	Ages 8-13	Minecraft Creative - The Engineer in You	Ages 8-13
Pre-Architecture	Ages 10-14	Programming - Scratch - Easy	Ages 7-10
Programming - Scratch - Easy	Ages 7-10	Public Speaking and Youth Leadership	Ages 8-13
Youngster - Left Brain Mix	Ages 5-7	Youngster - Right Brain Mix	Ages 5-7

Week 6 - July 29 - August 2			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Engineering of Ice Cream	Ages 8-13	Engineering - Flight and Aerospace	Ages 8-13
Escape Room Creation	Ages 8-13	Fashion and The Sewing Machine	Ages 8-13
Minecraft Survival for Beginners	Ages 5-10	Minecraft Advanced	Ages 10-14
Mixed Media Studio Art	Ages 8-13	Programming in Python - Introduction	Ages 10-14
Programming in Java - Introduction	Ages 13-15	Robotics VEX IQ Animals	Ages 10-15
Robotics VEX IQ Vehicles	Ages 10-15	Video Game Creation Advanced	Ages 10-14
Video Game Creation Beginners	Ages 8-13	War and Peace Games - Game Theory	Ages 10-14
Youngster - Right Brain Mix	Ages 5-7	Youngster - Left Brain Mix	Ages 5-7

SCHEDULES – NJ – STIRLING (2/2)

Week 7 - August 5 - August 9			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Chemical Engineering: Polymers & Bioplastics	Ages 8-13	App Design Using App Inventor	Ages 10-14
Drone Programming	Ages 10-14	Civil Engineering - Bridges and Buildings	Ages 8-13
Film-Making	Ages 8-13	Drone Programming	Ages 10-14
Math Competition Training	Ages 8-13	Investment Literacy and Stock Market Game	Ages 8-13
Minecraft and Coding	Ages 10-14	Minecraft and Chemistry	Ages 10-14
Roblox Game Development	Ages 10-14	Robotics VEX IQ Vehicles	Ages 10-15
Robotics VEX IQ Animals	Ages 10-15	Stop-Action Animation	Ages 8-13
Youngster - Left Brain Mix	Ages 5-7	Youngster - Right Brain Mix	Ages 5-7

Week 8 - August 12 - August 16			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Engineering and Programming with Arduino	Ages 10-14	App Design Using Game Salad (Apple ios)	Ages 10-14
Graphic Design and GIMP	Ages 8-13	Electrical Engineering with Makey-Makey	Ages 8-13
Lemonade Stand Entrepreneur	Ages 8-10	Math & Problem-Solving Games	Ages 8-10
Minecraft Creative - The Engineer in You	Ages 8-13	Minecraft Advanced	Ages 10-14
Programming - Hopscotch, Ages 9-11	Ages 9-11	Robotics VEX IQ Animals	Ages 10-15
Robotics VEX IQ Vehicles	Ages 10-15	Shark Tank Entrepreneur	Ages 10-14
Virtual Reality	Ages 10-14	Virtual Reality	Ages 10-14
Vocabulary and Grammar Games	Ages 8-10	Website Design with Wordpress	Ages 8-13
Youngster - Right Brain Mix	Ages 5-7	Youngster - Left Brain Mix	Ages 5-7

STIRLING - 2019		Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
(AM = 9:00-12:30 ; PM = 1:30 - 5:00)		July 1-5	July 8-12	July 15-19	July 22-26	July 29-Aug 2	Aug 5-9	Aug 12-16
3D Printing	Ages 10-14	AM, PM	AM, PM					
AdventureQuest- Leadership Games	Ages 5-10			AM				
Anatomy and Surgical Techniques	Ages 10-14				PM			
App Design Using App Inventor	Ages 10-14		AM				PM	
App Design Using Game Salad (Apple ios)	Ages 10-14							PM
Canvas Painting	Ages 8-13				PM			
Chemical Engineering: Polymers & Bioplastics	Ages 10-14		PM				AM	
Civil Engineering - Bridges and Buildings	Ages 8-11		AM				PM	
Comic Creation	Ages 8-13				AM			
Creative Writing Workshop	Ages 8-13				AM			
Drone Programming	Ages 10-14						AM, PM	
Electrical Engineering with Makey-Makey	Ages 8-13			AM				PM
Engineering - Flight and Aerospace	Ages 8-11	AM				PM		
Engineering and Programming with Arduino	Ages 10-14			PM				AM
Engineering Discovery Workshop	Ages 7-10			PM				
Engineering of Ice Cream	Ages 8-13	PM				AM		
Escape Room Creation	Ages 8-13					AM		
Fashion and The Sewing Machine	Ages 8-13					PM		
Fashion Design on the Computer	Ages 8-13				PM			
Film-Making	Ages 8-13						AM	
Forensic Science	Ages 10-14				AM			
Graphic Design and GIMP	Ages 8-13			PM				AM
Investment Literacy and Stock Market Game	Ages 10-14		AM				PM	
Lemonade Stand Entrepreneur	Ages 8-10			PM				AM
Math & Problem-Solving Games	Ages 8-10							PM
Math Competition Training	Ages 10-14		PM				AM	
Minecraft Advanced	Ages 10-14					PM		PM
Minecraft and Chemistry	Ages 10-14						PM	
Minecraft and Coding	Ages 10-14						AM	
Minecraft Creative - The Engineer in You	Ages 8-13				PM			AM
Minecraft Math	Ages 8-13				AM			
Minecraft Survival for Beginners	Ages 5-10					AM		
Mixed Media Studio Art	Ages 8-13					AM		
Pre-Architecture	Ages 10-14				AM			
Programming - Hopscotch	Ages 9-11							AM
Programming - Scratch - Easy	Ages 7-10				AM, PM			
Programming in Java - Introduction	Ages 13-15	PM				AM		
Programming in Python - Introduction	Ages 10-14	AM				PM		
Public Speaking and Youth Leadership	Ages 8-13				PM			
Raspberry Pi	Ages 10-14		PM					
Roblox Game Development	Ages 10-14		PM				AM	
Robotics Lego ® Animals	Ages 8-10	PM	AM	PM				
Robotics Lego ® Vehicles	Ages 8-10	AM	PM	AM				
Robotics VEX IQ Animals	Ages 10-15					PM	AM	PM
Robotics VEX IQ Vehicles	Ages 10-15					AM	PM	AM
Shark Tank Entrepreneur	Ages 10-14			AM				PM
STEAM challenges with littleBits ®	Ages 8-11					PM		
Stop-Action Animation	Ages 8-13						PM	
Video Game Creation Advanced	Ages 10-14	AM				PM		
Video Game Creation Beginners	Ages 8-10	PM				AM		
Virtual Reality	Ages 10-14			AM, PM				AM, PM
Vocabulary and Grammar Games	Ages 8-10							PM
War and Peace Games - Game Theory	Ages 10-14					PM		
Website Design with Wordpress	Ages 8-13			AM				PM
Youngster - Left Brain Mix	Ages 5-7	PM	AM	PM	AM	PM	AM	PM
Youngster - Right Brain Mix	Ages 5-7	AM	PM	AM	PM	AM	PM	AM
Youngster - WeDo Robotics Level 2	Ages 6-8					PM		
YouTube Video Creation	Ages 8-13		AM					

SCHEDULES – NJ – SUMMIT

SUMMIT 2019 CLASS SCHEDULE

Week 3 - July 8 - July 12			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
3D Printing	Ages 10-14	3D Printing	Ages 10-14
Comic Creation	Ages 8-13	Anatomy and Surgical Techniques	Ages 10-14
Creative Writing Workshop	Ages 8-13	Canvas Painting	Ages 8-13
Forensic Science	Ages 10-14	Fashion Design on the Computer	Ages 8-13
Minecraft Math	Ages 8-13	Minecraft Creative - The Engineer in You	Ages 8-13
Pre-Architecture	Ages 10-14	Programming - Scratch - Easy	Ages 7-10
Programming - Scratch - Easy	Ages 7-10	Public Speaking and Youth Leadership	Ages 8-13
Robotics VEX IQ Animals	Ages 10-15	Robotics VEX IQ Vehicles	Ages 10-15
Youngster - Left Brain Mix	Ages 5-7	Youngster - Programming with Dash & Dot	Ages 5-7
Youngster - WeDo Robotics	Ages 5-7	Youngster - Right Brain Mix	Ages 5-7

Week 4 - July 15 - July 19			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Chess for Beginner and Intermediate Players	Ages 7-14	AdventureQuest- Leadership Games	Ages 5-10
Engineering Discovery Workshop	Ages 7-10	Engineering - Flight and Aerospace	Ages 8-11
Engineering of Ice Cream	Ages 8-13	GIRLS ONLY: Robotics, Engineering & Computer S	Ages 7-9
Escape Room Creation	Ages 8-13	Minecraft Advanced	Ages 10-14
Minecraft Survival for Beginners	Ages 5-10	Programming in Python - Introduction	Ages 10-14
Mixed Media Studio Art	Ages 8-13	Robotics VEX IQ Animals	Ages 10-15
Programming in Java - Introduction	Ages 13-15	Video Game Creation Advanced	Ages 10-14
Robotics VEX IQ Vehicles	Ages 10-15	War and Peace Games - Game Theory	Ages 10-14
Video Game Creation Beginners	Ages 8-13	Youngster - Left Brain Mix	Ages 5-7
Youngster - Right Brain Mix	Ages 5-7	Youngster - WeDo Robotics	Ages 5-7
Youngster - Scratch Junior	Ages 5-7	YouTube Video Creation	Ages 8-13

Week 5 - July 22 - July 26			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
App Design Using Game Salad (Apple ios)	Ages 10-14	App Design Using App Inventor (android)	Ages 10-14
Chemical Engineering: Polymers & Bioplastics	Ages 10-14	Civil Engineering - Bridges and Buildings	Ages 8-11
Detective/Spy Lab	Ages 7-10	Crazy Chemworks	Ages 7-10
Drone Programming	Ages 10-14	Drone Programming	Ages 10-14
Film-Making	Ages 8-13	Investment Literacy and Stock Market Game	Ages 10-14
Math Competition Training	Ages 10-14	Minecraft and Chemistry	Ages 10-14
Minecraft and Coding	Ages 10-14	Programming - Hopscotch	Ages 9-11
Raspberry Pi	Ages 10-14	Robotics VEX IQ Vehicles	Ages 10-15
Roblox Game Development	Ages 10-14	Stop-Action Animation	Ages 8-13
Robotics VEX IQ Animals	Ages 10-15	Youngster - Right Brain Mix	Ages 5-7
Youngster - Left Brain Mix	Ages 5-7	Youngster - Scratch Junior	Ages 5-7
Youngster - WeDo Robotics	Ages 5-7	YouTube Video Creation	Ages 8-13

Week 6 - July 29 - August 2			
AM (9:00-12:30) - select one AM class for the week.		PM (1:30-5:00) - select one PM class for the week.	
Engineering and Programming with Arduino	Ages 10-14	AdventureQuest- Leadership Games	Ages 5-10
Engineering Discovery Workshop	Ages 7-10	Chess for Beginner and Intermediate Players	Ages 7-14
GIRLS ONLY: Robotics, Engineering & Computer S	Ages 9-11	Electrical Engineering with Makey-Makey	Ages 8-13
Graphic Design and GIMP	Ages 8-13	Eureka! The Inventors' Camp	Ages 7-10
Lemonade Stand Entrepreneur	Ages 8-10	Minecraft Advanced	Ages 10-14
Minecraft Creative - The Engineer in You	Ages 8-13	Mixed Media Studio Art	Ages 8-13
Robotics VEX IQ Vehicles	Ages 10-15	Robotics VEX IQ Animals	Ages 10-15
Shockingly Sticky Science	Ages 7-10	Shark Tank Entrepreneur	Ages 10-14
Virtual Reality	Ages 10-14	Virtual Reality	Ages 10-14
Youngster - Right Brain Mix	Ages 5-7	Website Design with Wordpress	Ages 8-13
YouTube Video Creation	Ages 8-13	Youngster - Left Brain Mix	Ages 5-7

SUMMIT - 2019		Week 3	Week 4	Week 5	Week 6
(AM = 9:00-12:30 ; PM = 1:30 - 5:00)		July 8-12	July 15-19	July 22-26	July 29-Aug 2
3D Printing	Ages 10-14	AM, PM			
AdventureQuest- Leadership Games	Ages 5-10		PM		PM
Anatomy and Surgical Techniques	Ages 10-14	PM			
App Design Using App Inventor (android)	Ages 10-14			PM	
App Design Using Game Salad (Apple ios)	Ages 10-14			AM	
Canvas Painting	Ages 8-13	PM			
Chemical Engineering: Polymers & Bioplastics	Ages 10-14			AM	
Chess for Beginner and Intermediate Players	Ages 7-14		AM		PM
Civil Engineering - Bridges and Buildings	Ages 8-11			PM	
Comic Creation	Ages 8-13	AM			
Crazy Chemworks	Ages 7-10			PM	
Creative Writing Workshop	Ages 8-13	AM			
Detective/Spy Lab	Ages 7-10			AM	
Drone Programming	Ages 10-14			AM, PM	
Electrical Engineering with Makey-Makey	Ages 8-13				PM
Engineering - Flight and Aerospace	Ages 8-11		PM		
Engineering and Programming with Arduino	Ages 10-14				AM
Engineering Discovery Workshop	Ages 7-10		AM		AM
Engineering of Ice Cream	Ages 8-13		AM		
Escape Room Creation	Ages 8-13		AM		
Eureka! The Inventors' Camp	Ages 7-10				PM
GIRLS ONLY: Robotics, Engineering & Computer Science	Ages 7-9		PM		
GIRLS ONLY: Robotics, Engineering & Computer Science	Ages 9-11				AM
Fashion Design on the Computer	Ages 8-13	PM			
Film-Making	Ages 8-13			AM	
Forensic Science	Ages 10-14	AM			
Graphic Design and GIMP	Ages 8-13				AM
Investment Literacy and Stock Market Game	Ages 10-14			PM	
Lemonade Stand Entrepreneur	Ages 8-10				AM
Math Competition Training	Ages 10-14			AM	
Minecraft Advanced	Ages 10-14		PM		
Minecraft Advanced	Ages 10-14				PM
Minecraft and Chemistry	Ages 10-14			PM	
Minecraft and Coding	Ages 10-14			AM	
Minecraft Creative - The Engineer in You	Ages 8-13	PM			AM
Minecraft Math	Ages 8-13	AM			
Minecraft Survival for Beginners	Ages 5-10		AM		
Mixed Media Studio Art	Ages 8-13		AM		PM
Pre-Architecture	Ages 10-14	AM			
Programming - Hopscotch	Ages 9-11			PM	
Programming - Scratch - Easy	Ages 7-10	AM, PM			
Programming in Java - Introduction	Ages 13-15		AM		
Programming in Python - Introduction	Ages 10-14		PM		
Public Speaking and Youth Leadership	Ages 8-13	PM			
Raspberry Pi	Ages 10-14			AM	
Roblox Game Development	Ages 10-14			AM	
Robotics VEX IQ Animals	Ages 10-15	AM	PM	AM	PM
Robotics VEX IQ Vehicles	Ages 10-15	PM	AM	PM	AM
Shark Tank Entrepreneur	Ages 10-14				PM
Shockingly Sticky Science	Ages 7-10				AM
Stop-Action Animation	Ages 8-13			PM	
Video Game Creation Advanced	Ages 10-14		PM		
Video Game Creation Beginners	Ages 8-13		AM		
Virtual Reality	Ages 10-14				AM, PM
War and Peace Games - Game Theory	Ages 10-14		PM		
Website Design with Wordpress	Ages 8-13				PM
Youngster - Left Brain Mix	Ages 5-7	AM	PM	AM	PM
Youngster - Programming with Dash & Dot	Ages 5-7	PM			
Youngster - Right Brain Mix	Ages 5-7	PM	AM	PM	AM
Youngster - Scratch Junior	Ages 5-7		AM	PM	
Youngster - WeDo Robotics	Ages 5-7	AM	PM	AM	
YouTube Video Creation	Ages 8-13		PM	PM	AM

Class Descriptions

Robotics

Robotics – LEGO® - Animals - Ages 8-10

Students learn how to build and program the LEGO® Mindstorms NXT robots to emulate real life movements such as scuttling like an inchworm, crawling like a spider, following like a puppy dog and striking like a rattlesnake. This class teaches the common programming blocks. Creative robot construction, team-oriented challenges, variations of input sensors will stimulate your child's imagination. Both beginners and students with knowledge of LEGO® Mindstorms® NXT can take this class. This class is at the same level as “Robotics – Half-Day – Vehicles” - either one can be taken first.

Robotics – LEGO® – Vehicles – Ages 8-10

Students learn how to build and program the amazing LEGO® Mindstorms® NXT robot. They use their new skills to meet challenges such following lines, processing sound, navigating a maze and ultimately building their race car. This class will introduce programming concepts such as repeat loops, if/then statements, and the use of the external inputs such as touch, sound and light sensors. Logic, technology and creativity are combined to provide hours of learning fun! Both beginners and students with knowledge of LEGO® Mindstorms® NXT can take this class. This class is at the same level as "Robotics - Half-Day - Animals" so either one can be taken first.

Robotics – VEX IQ –Animals – Ages 10-15

VEX IQ is a snap-together robotics system to provide future engineers the opportunity to build and program robots. Students will learn about sensors, motors, gear ratios and object manipulation. Some of the robots students will build and program include a dinosaur, alligator and ant-eater. This class is at the same level as “Robotics – VEX IQ –Vehicles” - either one can be taken first.

Robotics – VEX IQ –Vehicles – Ages 10-15

VEX IQ is a snap-together robotics system to provide future engineers the opportunity to build and program robots. Students will learn about sensors, motors, gear ratios and object manipulation. Students advance to programming tele-operated robots which navigate through challenges. Some of

the robots students will build and program include a bulldozer and forklifts. This class is at the same level as “Robotics – VEX IQ –Animals” - either one can be taken first.

LEGO® WeDo Robotics - Level 1 – Ages 5-7

Using the LEGO® Education WeDo™ Robotics Construction Set, the students are introduced to simple robotics through building models, attaching sensors and motors, and using a computer to program the model’s behavior. Robot models include dancing birds, smart spinner, drumming monkey, hungry alligator, roaring lion, flapping bird, soccer kicker, soccer goalie, and cheerful fans, airplane, a giant, sailboat and larger models such as a tower crane, an intelligent house, a Ferris wheel, and a car. Students will also learn about simple engineering concepts such as pulleys, belts, gears and levels, while having a blast with their creations. NOTE: This class can be taken multiple times as there are twenty models of increasing difficulty that usually take two to three weeks to complete.

LEGO® WeDo Robotics Level 2 – Ages 6-8

This class is the follow-on class for those who have already taken the Lego WeDo (Level 1) Robotics class. This class uses the LEGO® Education WeDo™ 2.0 Robotics Construction Set and introduces the use of Scratch programming to program the robots. Scratch is drag and drop programming language developed by MIT to specifically teach children fundamental concepts of programming. The class also introduces the use of Bluetooth technology to communicate with the robot. Students continue to work with sensors and motors to construct and program a pull-robot, race car, earth-quake simulators and helicopters and explore concepts like force, friction, speed and design.

Girls Only: Robotics-Engineering-Computer Science - Ages 7-9 and Ages 9-11

This class is designed to expose girls to robotics, engineering and computer science, following the curriculum developed by the Girl Scouts. Girls will learn to build and program robots, learn about cyber-security and participate in mechanical engineering challenges. All girls, regardless of whether they are members of the Girl Scouts, are welcome.

After completion of the Ages 7-9 section, students will receive the Girl Scouts Brownie badges in Robotics, Cyber-Security and Engineering. After completion of the Ages 9-11 section, students will receive the Girl Scouts Junior badges for the same areas.

Girls Only: Robotics - Ages 11-15

Girls learn how to build and program the amazing LEGO® Mindstorms® NXT robot. They use their new skills to meet challenges such following lines, processing sound, navigating a maze and ultimately building their race car. This class will introduce programming concepts such as repeat loops, if/then statements, and the use of the external inputs such as touch, sound and light sensors. Logic, technology and creativity are combined to provide hours of learning fun! Key concepts from the Girls Scouts curriculum are incorporated. All girls, regardless of whether they are members of the Girl Scouts, are welcome. After completion, students will receive the Girl Scouts Cadettes/Seniors badges in Robotics.

Computer Programming

GIRLS ONLY: Programming in Scratch and Hopscotch – Ages 8-11

This class is designed to expose girls who have had no exposure to coding to intuitive drag-and drop coding languages, Scratch and Hopscotch coding. Students learn fundamental coding concepts like repeat loops, conditional statements, and variables while creating games, graphics, and animation.

Computer Programming – Hopscotch – Ages 9-11

Hopscotch is a programming language designed for the iPad. It's drag-and-drop programming (Hopscotch is also the creator of Daisy the Dinosaur for younger kids) that lets kids build games, graphics, and apps. Kids can share projects online and follow the Hopscotch blog.

Computer Programming – Scratch – Easy - Ages 8-10

Scratch is a programming language developed by MIT Media Lab where kids can create and share their interactive stories, animation or simple games. Using simple drag-and-drop programming, students can create art, animation, and games. In the process, they are subtly exposed to basic programming concepts such as conditional statements, iteration, variables, and event triggers. Students share their creations with the rest of the class at the end of the week. This is the class to stretch the imagination of a budding programmer.

Computer Programming - Java - Introduction – Ages 13-15

Java is one of the most popular programming languages in the world. Students learn the fundamentals of this programming language through step-by-step instruction of key concepts like types, variables, the standard I/O and game loop. Students will be given mini-projects to reinforce their skill-building.

Python Programming - Level 1 - An Introduction - Ages 10-14

Python is a computer programming language that is excellent for aspiring computer programmers to start with. Python has easy-to-read syntax and programmers can quickly see the output of their programs. In this class, students will learn various commands like "print", "input" and use mathematical operators, loops and conditional statements.

Youngster – Scratch Junior, Ages 5-7

Scratch Jr is an introductory programming language that enables youngsters to create their own interactive stories and games. Children snap together graphical programming blocks to make characters move, jump, dance, and sing. Children can modify characters in the paint editor, add their own voices and sounds, even insert photos of themselves — then use the programming blocks to make their characters come to life. During the course of the week, students will create a collage, a story and game. They will also go outside to play typical playground games like tag and monkey in the middle and then go inside and replicate these games on Scratch Jr.

Engineering and Programming with Arduino - Ages 10-14

Do you ever wonder how gadgets work? Students will be engineering and programming their own electronic circuits, motors, sensors and controllers to do a range of tasks using the Arduino™ electronics platform. They will use the engineering design process (i.e. create, test, improve) to break down a problem, design a solution and build it!

Raspberry Pi – Ages 13-15

The Raspberry Pi is a credit card-sized single board computer originally designed to teach basic computer science. In this class, students will learn how to set up the Raspberry Pi environment, write and execute some basic Python code on the Raspberry Pi and trace and debug Python code on the device. Students will connect accessories to the Raspberry Pi, make music with it and build simple circuits. This class culminates with a final project of the student's choosing.

Video Game Creation

App Design Using App Inventor – Ages 10-14

Students will create Android applications using MIT App Inventor, a “drag and drop” coding platform. Students will learn to program apps by selecting and assembling components, adding sounds and images, testing, and packaging their app. Students will use coding concepts like variables, conditional statements, lists and repeat loops when they build games like MoleMash (similar to Whac-A-Mole™), Lady Bug Chase and Trivia Game. (Exposure to Scratch or SNAP! or other computer programming before taking this class is recommended but not required.)

App Design Using GameSalad® (Apple ios) – Ages 10-14

Students create their very own mobile game from the ground up. Utilizing GameSalad® software, our teachers will walk through every step of developing mobile games for Apple devices. Covered concepts include repeat loops, conditional statements, variables, events, synchronization and game physics. GameSalad is a drag and drop game design engine with an intuitive interface.

Roblox Game Development – Ages 10-14

Roblox is the largest user-generated online gaming platform, and over 15 million games created by users. Students will use Roblox to create adventures which can be published to smartphones, tablets, desktops and consoles. Kids learn the Lua coding using the Roblox text editor to create 3D worlds and explore the use of conditionals, loops, arrays, inheritance, and more!

Video Game Creation - Beginner - Ages 8-10

Students create their very own computer video game from the ground up. Utilizing **GameMaker®** software, our teachers will walk through every step of developing a customized functional arcade-style video game. This includes creating various objects such as the player, enemies, bonuses, designing multiple levels, assigning health and lives, and programming object movements. In addition to having fun and gaining a sense of accomplishment, students learn the elements of good game design, drag-and-drop programming, and incorporated logic such as repeat loops, conditional statements, object parenting.

Video Game Creation – Advanced - Ages 10-14

Students will design and build games using the user-friendly Clickstream Fusion® interface to create the navigation, controls, instructions, characters and setting to an exciting game from their imagination. Students will explore advanced concepts such as menu trees, prototyping, testing, publishing, advertising and developing social games. The teacher will also cover the history and genres of handheld games which will help students think through the type and design of their game.

Virtual Reality – Ages 10-14

This Virtual Reality class engages students with coding, game and app design and VR game-play using the Oculus Go, a stand-alone virtual reality VR headset. Students will use Unity, a game design engine to create 3D environments. Students will program in C# and apply game objects, models and levels to create environments. Students will ultimately experience and modify interactive virtual reality games! *Note – Student does not take the Oculus Go headsets home.

Digital Design

Graphic Design and GIMP – Ages 8-13

Students will be creating imaginary animals, collages, personal logos, video game covers, pixel art, vampire portraits and wacky landscapes while learning different tools in GIMP, a free image manipulation and creation software that is similar to Photoshop, the standard in several industries including film, photography and print. Students will learn to scan and import images, combine and transform images, and export to web and print.

Website Design with Wordpress – Ages 8-13

Students will create their website in one week using WordPress, the most popular website-creation tool that requires no coding. They will learn to organize their thoughts in a theme, develop content, understand design and create web pages using the template driven tool. Students will learn to use popular plugins to make contact forms, sliders, polls, photo galleries, maps and blogs. At the end of the class, students have the option of publishing their website.

Fashion Design on the Computer - Ages 8-13

Does your child have a favorite fashion designer already? Your child may be the next Vera Wang or Ralph Lauren. In this class, students create their own fashion collection using the powerful design software, Inkscape. Students start their creative process thinking about their inspiration and style. They will be making design choices around fabrics, color schemes and patterns. At the end of class, these student designers will present their collection to potential "buyers".

3D Printing - Ages 10-14

3D printing is the technology that will change the way we live! Students will learn how to use Tinkercad, a design software used for creating 3D models. Students will learn to design, sculpt, texture, arrange and render their 3D models. Students in the past have created jewelry, phone cases and ornaments. At the completion of the course, every student will have at least one 3D object from their projects to take home.

Minecraft®

Minecraft® Survival for Beginners – Ages 5-10

The class will cover the basics of Minecraft in survival mode, including basic controls, managing inventory, how to survive the first night, avoiding hunger, building, mining, farming, reaching the Nether and conquering the end. Imagine playing survival with all the players in the same room, working together for a common goal. The teacher will facilitate discussions on traits of good teamwork.

Minecraft® - Finding the Engineer in You – Ages 8-13

Students will be building their dream home, setting up their village, replicating a famous building like the White House and building the Golden Gate Bridge as a team. Students will explore effective communications skills through discussions and group exercises in Minecraft.

MInecraft® Math – Ages 8-13

While playing Minecraft, students will have to conquer math problems in order to open doors and get needed tools and inventory items. The focus of the math problems are (1) order of operations, (2) word problems (3) multiplication (4) division and (5) fractions. You can calculate your way through survival mode!

Minecraft® Advanced – Ages 10-14

Students explore more advanced topics like engineering with Redstone, using enchantments, brewing potions, surviving zombie sieges and excavating structures. Students will also learn about World Edit, an application that enables Minecraft enthusiasts to build and edit maps.

Minecraft® and Chemistry – Ages 10-14

Students discover the building blocks of matter, combine elements into useful compounds and Minecraft items, and conduct amazing experiments in Minecraft worlds. Using the Element Constructor, students make elements using different combinations of protons, neutrons and electrons. Using the Compound Creator, students learn how to construct Minecraft materials like water, super-fertilizer, underwater torches, underwater TNT by combining different elements.

Minecraft® and Coding – Ages 10-14

This class uses MakeCode for Minecraft editor which allows students to create and program Minecraft items which have the pixelated look and feel of Minecraft. MakeCode allows coding with visual blocks, based on a drag and drop interface for beginners. This class will go over fundamental programming concepts like variables, control flow, if statements, loops and functions. Students will have fun programming superpowers like mega jumping, walking on water and fast forwarding; creating mods like chicken rain, zombie pigs, rabbit invasions; terraforming like TNT mega blocks, lava towers and pitfall. Students will also create mini-games.

Science & Engineering

Anatomy and Surgical Techniques – Ages 10-14

This class is for students who wonder about being a physician or surgeon. In this class, students will investigate how the body works by participating in hands-on activities, such as dissections and construction of physiological system maps (skeletal, nervous, circulatory, immune). Students will conduct simulated surgeries, perform biopsies, and learn how to suture. Students will also learn about important medical/surgical breakthroughs and famous medical marvels throughout history. This class was developed by the New York Hall of Science.

Chemical Engineering - Polymers & Bioplastics– Ages 8-13

When plastic items are thrown in the trash, they can quickly pile up in landfills and create a big mess! Students use their chemical engineering skills to explore problems created by traditional plastic materials and engineer bioplastics—plastics made from plant-based materials—as a potential solution to current plastic problems. Students will explore exciting new polymers that use environmentally friendly, biodegradable ingredients like corn, tapioca and even algae and their applications. Developed by Engineering is Elementary, Museum of Science Boston.

Civil Engineering - Bridges and Earthquake-Resistant Buildings – Ages 8-11

When civil engineers design bridges and buildings, they must take into account factors like balance and motion. This unit introduces the principles behind “push” and “pull” as they explore how forces act on different structures. They’ll use what they know about balance and force as they experiment with beam, arch, and suspension bridges. Students plan, build, and test their own bridges. Students will also learn how to support and protect buildings during earthquakes. Students will engineer model buildings that are earthquake resistant while exploring how earthquakes impact buildings of different heights and shapes.

Crazy Chemworks – Ages 7-10

Shake up a flask of fun in the lab and become a junior chemist! Learn to recognize chemical reactions and mix up a few reactive ingredients for some sensational results. Check out the colors of chemistry with the power of pH paper and create a stopper-popping reaction. Probe the properties of light and discover some unusual applications of glow-in-the-dark technology. Students have a blast

as they make some crazy concoctions. Take home projects include a reaction tube kit, atomic coins, slippery slime, Professor Beakerdude and more! This course is offered in partnership with Mad Science.

Detective/Spy Lab – Ages 7-10

Step into the shoes of a detective — uncover the science involved in evidence gathering and analysis. Student will use the powers of observations and investigative gear to find, collect and analyze evidence. Students also become a super-spy. They build binoculars; discover what it takes to keep things safe and how technology works in the spy game! They will take turns on short surveillance shifts to test their observation abilities and create their very own Secret Safe while challenging others to crack the code! This course is offered in partnership with Mad Science.

Drone Programming - Ages 10-14

Students will learn how to build, program, and fly industry-grade drones using a professional kit and an open-source coding environment. Students will learn the mechanics of UAV (unmanned aerial vehicle) flight through hands-on demos; learn the process of designing and programming drone software, from engineering basic flight controls to building autonomous navigators and voice-control applications; interact with infrared, gyroscopic, and other sensors; and learn about regulations, ethics, and other key industry questions. By the end of the week, students will be able to use their skills to build, fly, and program drones.

Prerequisites: Java Level 1 or Python Level 1 or equivalent programming experience.

Electrical Engineering with Makey-Makey – Ages 8-13

Students will obtain an introduction in electrical engineering by tinkering with Makey Makey, a circuit board kit that can be used to connect objects with a computer, transforming those objects into computer keys or mouse clicks. Students can invent new devices, instruments and controllers with objects that conduct electricity. For instance, bananas turn into piano keys. Students learn about the fundamentals of circuits and how computers work while boosting their creativity

Engineering: Flight & Aerospace, Ages 8-11

Aerospace engineers design things that fly both inside and outside of our atmosphere, while aeronautical (flight) engineers design things that only fly inside of our atmosphere. Students dive into aeronautical engineering by designing models of flying technologies that help collect aerial photographs. Students also learn how to engineer rovers that can be used to explore faraway worlds in space while addressing trade-offs and variables involved in engineering.

Engineering and Programming with Arduino - Ages 10-14

Do you ever wonder how gadgets work? Students will be engineering and programming their own electronic circuits, motors, sensors and controllers to do a range of tasks using the Arduino™ electronics platform. They will use the engineering design process (i.e. create, test, improve) to break down a problem, design a solution and build it!

Engineering Discovery Workshop – Ages 7-10

Students use the Engineering Design Process to design, create, test, race, and refine a variety of race cars. They may also build their own electro-magnets and explore and refine a variety of machines and mechanical systems. Students will learn the basics of structural mechanics, simple machines, and other design and engineering concepts while possibly constructing giant labyrinths, simple rockets, roller coasters, and other fun creations. All children will create and get to keep at least 1 of their creations each day.

Engineering of Ice Cream – Ages 8-13

Students are introduced the engineering design process to solve a team-based challenges. Ever wonder how ice cream gets to be so creamy and delicious? They will explore the process of making ice cream, developing new ice cream flavors and improving the packaging for ice cream, all from an engineer's perspective towards problem-solving. This class was developed by The Museum of Science in Boston.

Eureka! The Inventors' Camp – Ages 7-10

Children will overcome a series of challenges using basic materials, simple machines, tips from famous inventors and – most important of all – their mind. With a little bit of ingenuity children will create catapults and forts, construct working light sticks to take home and assemble a set of circuits

with batteries and light bulbs. While Thomas Edison said "invention is 10% inspiration and 90% perspiration", this class is 100% FUN! This course is offered in partnership with Mad Science.

Forensic Science – Ages 10-14

Students will learn and apply the various techniques used during a crime scene investigation, including what types of evidence to collect and how that evidence can be used to deduce information about the crime and/or perpetrator. Students will learn such investigative strategies as measuring stride length from footprints left at the scene to calculate height; using the victim's temperature to estimate the time of death; and collecting blood and other DNA samples from the scene in order to conduct a variety of biological tests—including blood typing and DNA fingerprinting that can match a suspect to the crime.

Raspberry Pi – Ages 13-15

The Raspberry Pi is a credit card-sized single board computer originally designed to teach basic computer science. In this class, students will learn how to set up the Raspberry Pi environment, write and execute some basic Python code on the Raspberry Pi and trace and debug Python code on the device. Students will connect accessories to the Raspberry Pi, make music with it and build simple circuits. This class culminates with a final project of the student's choosing.

Shockingly Sticky Science – Ages 7-10

In Shockingly Sticky Science, students will learn Watts-Up with electricity and build their own static tubes, learn the marvels of magnets as they construct their own Magnet Maze, and get sticky with polymers (a.k.a. slime)! We will create our own soda pop and as a grand finale students will learn all about heat and get to make their own cotton candy to eat!! This program promises to be educational and entertaining. This course is offered in partnership with Mad Science.

Math & Business

Investment Literacy and Stock Market Game – AGES 10-14

This class allows students to apply skills in math, language arts and social studies to real world financial decisions. We use the Stock Market Game (TM) endorsed by the New York Stock Exchange. Students take part in the following steps: (1) Start with $100,000 in virtual cash and learn financial concepts like compound interest and long-term savings. (2) Collaborate and research companies and current events. (3) Create, manage and analyze their online investment portfolio using a state-of-the-art trading platform by buying and selling stocks. Topics covered include: What is a company? What is a stock? What is diversification? What is a bond? What is risk? What cause stock prices to change? How does money grow over time? What are dividends and earnings?

Lemonade Stand Entrepreneur – Ages 8-10

Take the challenge of creating a great lemonade stand business. Students will touch upon design, production (making the product), sales (selling the product), accounting (keeping track of the money), marketing (telling people about your product & business) and managing (organizing the business). Budding entrepreneurs will be developing their lemonade recipe, creating a product name, analyzing competition and running an actual lemonade stand at camp. Students will also be working on a simple business plan for a national Lemonade Stand contest.

Math and Problem-Solving Games – Ages 8-10

Students learn general strategies for solving problems that involve a wide range of mathematical concepts. Challenging problems lead students to use different approaches such as drawing diagrams, making lists, identifying patterns, guessing and checking, eliminating unreasonable possibilities, and manipulating variables. Demonstrations, activities, games, and explorations are incorporated to nurture students as critical thinkers and creative problem solvers, strengthening their mathematical-reasoning abilities and preparing them for more advanced study in math.

Math Competition Training – Ages 10-14

This class was created to stimulate excitement for problem-solving. Students will be training for competition in the Math Olympiads by exploring the twelve problem-solving strategies recommended

by Dr. George Lenchner, creator of the Math Olympiads. Mathletes will be taking math contests from prior years and even play Math Jeopardy! Students will be pumping their math muscle on topics like number patterns, factors, multiples, fractions, simple geometry and measurement.

MInecraft® Math – Ages 8-13

While playing Minecraft, students will have to conquer math problems in order to open doors and get needed tools and inventory items. The focus of the math problems are (1) order of operations, (2) word problems (3) multiplication (4) division and (5) fractions. You can calculate your way through survival mode!

Shark Tank Entrepreneur– Ages 8-13

Students play the role of young entrepreneurs as they start with the germ of an idea for a product and business and take it through the entire entrepreneurial process. Inspired by the TV show Shark Tank, our students will develop prototypes, formulate a business plan and devise a marketing strategy. Meanwhile, our teachers will provide guidance through contextual lessons on concepts such as wages, profits and branding. These young entrepreneurs will apply critical thinking skills to their creative ideas while honing their presentation talents in the process. The week will conclude with our young executives pitching their ideas to a celebrity panel of parent judges. Having acquired a new understanding of entrepreneurial development, these young executives will really be taking care of business!

Academic and Cross-Disciplinary

AdventureQuest- Leadership Games and Activities – Ages 5-10

Children go on a quest to play a series of fun and exciting games that require them to use their imagination and thinking skills. They will learn to blend both their cooperation and leadership abilities in order to finish the game. Some of the games include giant mazes with each child taking turns leading the ball thru the labyrinth, others require the group to build large structures using giant legos or foam blocks and then performing activities that include their use. In yet another game, the children will construct a large integrated walkway and then navigate it as a group without touching each other. It is fun yet challenging to do. While they think they are just having fun, the reality is that they are developing leadership and socialization skills that will last a lifetime. Facilitated by Team Makers.

Creative Writing Workshop – Ages 8-13

Student-writers dive into fun writing activities which explore who they are and the themes that move or inspire them. They will explore their own six-word memoir, simile chains and how Shakespeare can be related to hip-hop. Students will enhance their "fiction tool-box" by looking at what all great stories share and using writing techniques to "show, not tell". Student-writers will develop, publish and present their own work during the class.

Escape Room Creation – Ages 8-13

An escape room is a physical adventure game in which players solve a series of puzzles using clues to complete the objectives at hand by a certain time. Each day, students will participate in an escape room at the beginning of class. They will be exposed to a broad range of scenarios, clues and puzzles used in escape rooms. During the course of the week, students will team up and design their own escape room by creating their own scenario, clues and puzzles. Parents will be invited on Friday to see if they can “escape” from the students’ escape rooms.

Leadership Games for Older Kids – Ages 10-14

Kids go on a quest to play a series of fun and exciting games that require them to use their creativity and teamwork skills. Each student will have the opportunity take charge of the team to complete a mission. Facilitated by Team Makers.

Pre-Architecture – Ages 10-14

Do you dream of designing the next famous skyscraper or your family's dream house? Discover the works of famous architects like Frank Lloyd Wright, Frank Gehry, I.M. Pei and Michaelangelo for inspiration. Students will learn to use SketchUp, a 3-D modeling software. They will practice using over 30 tools within SketchUp. Students use their new skills to design a room, house, building or piece of furniture.

Pre-Law – Ages 10-14

Students will be learning about the United States legal system through real-life and fictional scenarios. Students will delve into the fundamental aspects of a courtroom such as: the basic structure of a courtroom, the function of different roles (judge, jury, defense, prosecutor), and the common procedures and language used in a courtroom environment. Students will also explore the importance of how to create an opening and closing statement, the legal grounds of when to object, and understand the dynamics of a direct and cross examination. Students will explore the elements of a valid contract and the rule of law. Students will hone their listening, reading, critical thinking and public speaking skills.

Public Speaking and Youth Leadership – Ages 8-13

Student will look at world issues like "access to education", "access to clean water", "food safety" and "poverty" while students find their own "cause compass" - issues that they care about and actions they can take. Along the way, they will research, structure, craft and execute their speeches to inform and persuade. Students will be practicing their public speaking skills, working on speaking from the diaphragm, projection, breath control, structure and conquering the quivers. The goal is to make students more aware of their self-presentation as well as give them a level of comfort with speaking in public.

STEAM Challenges with littleBits®, Ages 8-11

This class is about using the littleBits® STEAM set to explore STEAM – Science, Technology, Engineering, Arts and Math - with hands-on projects. Students will create and test circuits containing power sources, wires, inputs and outputs. Students collaborate to invent a self-driving vehicle, an art machine, a throwing arm, security device, chain reaction contraption and other open-ended challenges.

Test Prep - ISEE MATH for rising 5th and 6th graders - Ages 9-11

This class is designed for students who plan to apply to private school in the Fall and intend to take the ISEE Lower Level test required in the application process. International Ivy will use Success on the Lower Level ISEE - A Complete Course as the text to review whole numbers, fractions, decimals, percents and algebra. The course will start with a diagnostic test, review and drills of common test questions by category, discussion of test-taking strategies and a practice test.

Test Prep - ISEE VERBAL for rising 5th and 6th graders - Ages 9-11

This class is designed for students who plan to apply to private school in the Fall and intend to take the ISEE Lower Level test required in the application process. International Ivy will use Success on the Lower Level ISEE - A Complete Course as the text to review synonyms, sentence completions and reading comprehension. A portion of the class will be dedicated to expanding the student's vocabulary. The course will start with a diagnostic test, review and drills of common test questions by category, discussion of test-taking strategies and a practice test.

Test Prep - ISEE MATH for rising 7th and 8th graders - Ages 11-13

This class is designed for students who plan to apply to private school in the Fall and intend to take the ISEE Middle Level test required in the application process. International Ivy will use Success on the Middle Level ISEE – A Complete Course as the text to review whole numbers, fractions, decimals, percents and algebra (solving for variables). The course will start with a diagnostic test, review and drills of common test questions by category, discussion of test-taking strategies and a practice test.

Test Prep - ISEE VERBAL for rising 7th and 8th graders - Ages 11-13

This class is designed for students who plan to apply to private school in the Fall and intend to take the ISEE Middle Level test required in the application process. International Ivy will use Success on

the Middle Level ISEE - A Complete Course as the text to review synonyms, sentence completions and reading comprehension. A portion of the class will be dedicated to expanding the student's vocabulary. The course will start with a diagnostic test, review and drills of common test questions by category, discussion of test-taking strategies and a practice test.

Vocabulary and Grammar Games, Ages 8-10

From homonyms to synonyms to Latin roots to idioms, this class takes students on a journey to explore words and their meanings. Students will learn how to be resourceful to figure out the meaning of a word they have never seen before. Through fun and diverse games, students expand their vocabulary for better reading comprehension and more expressive speech and writing. In addition, student will be reading the comical book, Eats, Shoots & Leaves and play games based on what they learn to advance their correct use of grammar.

War and Peace Games – Game Theory, Ages 10-14

Through this course, students will develop a better understanding of war, peace, and game theory through daily, real-world simulations that match student “nation teams” against one another. Students will be challenged to develop solutions to complex problems like wars, treaty collapses, and food shortages and develop problem-solving, collaborative, public-speaking, and negotiating skills. By the end of the week, students will have a more sophisticated understanding of the world and how teamwork, refined communication, and understanding people’s bias can help create solutions in the face of the unknown.

Wee STEAMers Pre-K Camp – Ages 3-4

Campers explore STEAM – Science, Technology, Engineering, Art and Math through age-appropriate, hands-on activities:

- Art projects focusing on weekly Science themes like weather, seasons, insects, animals, human body, space, fruits and vegetables
- Using the Bee-Bot, a robot designed for young children, to learn about sequencing and problem-solving
- Lego building challenges and “how it works” exploration
- Math Activities like scavenger hunts for shapes and shapes, counting songs and use of manipulatives to build number awareness

There will be many songs and stories to promote language development. Campers will play different outdoor playground games to further their gross and fine motor skills. Consistent with the International Ivy philosophy, the Wee STEAMers Pre-K Camp blends learning with creating smiles, giggles and laughter.

Youngster - Left Brain Mix – Ages 5-7

This class can be taken more than once. Students build different robot models and learn different math skills each week. Each day will encompass the following activities:

(1) Lego WeDo Robotics - Using the LEGO® Education WeDo™ Robotics Construction Set, the students are introduced to simple robotics through building models, attaching sensors and motors, and using a computer to program the model’s behavior. Some of the robot models include dancing birds, smart spinner, drumming monkey, hungry alligator, roaring lion, flapping bird, soccer kicker, soccer goalie, and cheerful fans. Students will also learn about simple engineering concepts such as pulleys, belts, gears and levels, while having a blast with their creations.

(2) Singapore Math - The success of Singapore Math is related to covering a fewer topics but in a more in-depth level, greater visualization of math concepts and greater emphasis on solving word problems. We will focus on addition and subtraction of numbers up to 100, then to 1000. We will play math games like math relays and Eggspert.

(3) Logic and Strategy Games - Students are taught logic, strategy and spatial games like Logik Street, checkers, Connect 4, Othello, Guess Who! and Blokus to enhance "thinking ahead" and reasoning skills.

(4) Keyboarding - Student will spend 15 minutes each day practicing touch typing. This skill will become more and more important as standardized testing moves to the computer.

Youngster - Right Brain Mix – Ages 5-7

This class can be taken more than once. There are different themes every week. Each day will encompass the following activities:

(1) Yoga – Students will learn various yoga poses taking cues from animals and nature. They will roar, stretch and learn the tools to relax and strengthen their bodies.

(2) Country Adventure – Each week, students embark on an imaginary adventure to a different country. They learn about the art, music, games, language and customs of that country.

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Mexico	Japan	Morocco	Brazil	France	Italy	China	Russia

(3) Story Time – Students will be exposed to a different picture book every day. After each story, the instructor will lead a discussion to help students further their reading skills. Topics include cause and effect, making inferences, drawing conclusions, point of view, character traits, character motivation, etc. Students become book critics themselves and provide their own video “book reviews” in service of future readers while practicing their communicating skills.

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Eric Carle	Mo Willems	Stan and Jan Berenstain	Dr. Seuss	Ludwig Bemelmens	Tomia DePaola	Ed Young	Patricia Palacco

(4) Digital Art - Youngsters will create art projects on the computer like magazine covers, collages, movie posters, jigsaw puzzles, placemats, etc. while learning technical computer skills like opening, saving, closing, double-clicking, and dragging.

Youngster – Programming with Dash & Dot, Ages 5-7

Dash is a cute, three-legged, motorized robot and Dot is its sidekick. Dash hears and responds to sounds, navigates around a room, avoids obstacles, and comes to life with sound and lights. Our youngster students will explore the use of a drag and drop programming application, Blockly, to control the movements of Dash. Students will learn about sensors, inputs, outputs, sequencing, conditionals and loops as they use their problem-solving skills to solve challenges like getting Dash through a maze.

YouTube Video Creation – Ages 8-13

YouTube is the place to for video producers to broadcast experiences, opinions and vision. Students can make vlogs, gamecasts, tutorials, reviews to establish an online presence by diving into video production. Capture footage with ipads and use tools like iMovie to edit and enhance your project. Create a polished channel and explore how to attract followers.

Arts – Visual & Performing Arts

Action Flix – Ages 8-11

POW! BANG! BOOM! Make your own action movie! You'll get to use a green screen, camera tricks & special effects to create your own live-action action movie. Students will collaborate to write, act, & direct in this action packed camp where kids will be taught fake punches & kicks to thrill the audience. *Flix downloadable within a month after camp ends.

Canvas Painting – Ages 8-13

Students will obtain step-by-step instructions to create and customize one painting each day. Students will learn about color theory, brush stroke and paint application. Students will study both old and modern artists, along with different styles and movements throughout the ages.

Comic Creation - Ages 8-13

Does your child have a great idea for a comic book or love anime? Students will learn to tell a short story through sequential art by creating a story line, brainstorming to create characters, and write a plot with dialogue. They will learn the basics of manual drawing and digital cartooning using Pixton. Students collaborate on a comic anthology that they self-publish during the workshop.

Drawing for Beginners – Ages 8-13

Develop and refine basic drawing skills and gain self-confidence as you develop powers of observation, learning at your own pace in this structured class. Explore a broad range of drawing materials while defining your individual style. Explore different concepts and media. Study form, proportion and perspective working from still lifes. Demonstrations occur in each class.

Fashion and the Sewing Machine – Ages 10-14

Crafty artists and future fashionistas will learn how to use the sewing machine. We start with learning how to work with commercial sewing patterns and make a pair of pull on pants. Our second project will be a skirt and the third project is a tote bag. All fabrics and materials are supplied. Students walk away with unique works of art resulting from their own design choices. Even those with some sewing

experience will benefit from this class by developing their sewing skill set. Offered in partnership with So You.

Film-Making – Ages 8-13

Do you want to have a blast making a movie? You don't have to be an actor to star in these movies that you make from "Action" to "That's a wrap." We'll guide you through the Hollywood process as you brainstorm, location scout, bring in props and costumes, act and direct in a collaborative movie that will be fun for the entire audience. *All flix downloadable within a month after program ends. See below for films made in the past with our partner, Incrediflix.

Lego Flix – Ages 6-10

We know you love Legos and can create incredible Lego worlds, now it's time to bring those worlds to life in Lego stop-motion animated flix! We provide the Legos, and you provide your imagination. Students will create a Lego set with Lego characters for a movie they storyboard, write, shoot, and voice-over in age-appropriate groups. *All flix downloadable within a month after camp ends.

Mixed Media Studio Art – Ages 8-13

Your budding artist will dabble in the whimsical world of pottery, 3-D card making, bean mosaics and recycling objects art. Then, students move to the more serious world of print-making, where students will explore different types of print-making.

Stop-Action Animation – Ages 8-13

In this fast paced class, students will create up to 5 stop-motion animated flix! Each day you'll use a new style of stop-motion. And the last two days we'll even do Lego Animation! It's the ultimate arts and crafts class where students create, direct, and film their movies. *All flix downloadable within a month after program ends. See below for films made by students in the past. No experience is necessary.

Sports & Recreation

Chess for Beginner and Intermediate Players – Ages 7-14

Chess improves problem-solving and spatial reasoning skills. Students will learn or review how the pieces move. Students will learn openings, simple tactics, and checkmate patterns. Students will play for fun and participate in a chess tournament.

Fencing Clinic for Beginners – Ages 10-14

In partnership with a local fencing center, our fencing clinic is a great introduction to the sport of fencing for students who have little to no or minimal fencing experience. The clinic will learn fencing from a highly-trained fencing coach through activities, games, and exercises to develop coordination, flexibility, and focus. Instruction will be given in basic footwork, weapon holding and main fencing positions; fencing measure, advance, retreat, lunge; straight hits and hits with disengagement; simple attacks, basic parries and ripostes. By the end of the week, student should be able to demonstrate knowledge of fencing terminology, basic rules of a fencing bout, offensive and defensive actions and fencing etiquette. All fencing equipment, including electric scoring, is included.

FREQUENTLY ASKED QUESTIONS

What is a typical day like?

Full-Day Student

8:30-9:00 Student drop-off
9:00-10:30 AM class - part 1 of 2
10:30-11:00 AM class break
11:00-12:30 AM class - part 2 of 2
12:30-1:30 lunch
1:30-3:00 PM class part 1 of 2
3:00-3:30 PM class break
3:30-5:00 PM class part 2 of 2
5:00-5:30 Student pick up

AM Half-day Student

8:30-9:00 Student drop-off
9:00-10:30 AM class - part 1 of 2
10:30-11:00 AM class break
11:00-12:30 AM class - part 2 of 2
12:30-1:00 Student pick-up

PM Half-day Student

1:00-1:30 Student drop-off
1:30-3:00 PM class part 1 of 2
3:00-3:30 PM class break
3:30-5:00 PM class part 2 of 2
5:00-5:30 Student pick-up

Who are the teachers?

A significant number of our teachers are certified teachers in public and private schools. There are also experts in the field who serve as teachers. Lastly, there are college students and college graduates who we have trained in our curriculum who also serve as teachers in the program. All our teachers and adult counselors have been background checked in accordance with the standards of the American Camp Association.

What is the ratio of teacher to students?

We set a maximum class size of 12 students for almost all classes. On an as needed basis, (often when a class is close to capacity), we place a counselor in the classroom to further assist students.

What happens during the breaks?

During breaks, students take their snacks, play games or just relax. The following is the schedule of activities

Mondays – Ice-breakers, Team-building games

Tuesdays – Kick-ball, Capture the Flag, etc.

Wednesdays – Relay / Field Day Games

Thursdays – Theme Days

Friday – Kick-ball, Capture the Flag, etc.

** activities subject to change based on weather and the facilities **

What do I have to send in with my child?

- International Ivy provides all materials for class (e.g. robotics, laptops, pencils, paper, fabric).
- If your child is taking a technology class, we suggest sending in a flash drive to save work that the student creates in class and an email account.
- Remember to send in a beverage and snack each day for breaks.
- If a child is full-day, send in lunch if you are not buying lunch. Refrigeration will be provided.

Can I buy lunch?

You can buy lunch for $50/week at certain locations only: Chatham and Short Hills. Please check with the individual locations on the website, www.iisummer.com for the menu at your specific location. Lunch, if purchased, must be purchased for the entire week.

Do you provide transportation?

No, we do not provide transportation for day students. Parents are responsible for arranging transportation to and from the Program. We do offer transportation to and from New York students for residential students who are staying at the Caldwell campus from Monday morning to Friday afternoon.

Do you have extended day?

We do offer extended mornings from 8:00 AM to 8:30 AM and extended afternoons from 5:30 PM to 6:00 PM at certain locations only: Chatham and Short Hills. The fee for extended mornings is $50 per week and fee for extended afternoons is $50 per week. Families must register for extended care for the entire week. If parents are late to pick up their children, they will be charged $1.00 per minute.

What is your Tax Id Number?

International Ivy LLC's tax ID is 45-2850609.

What is your cancellation and refund policy?

Refunds are not given for any absences or unused part of the class. Our policy is we do not offer any refunds except when the Program cancels a class due to insufficient enrollment, in which case parents can (a) transfer a child to another class or (b) take a refund or credit. As a courtesy, we can transfer students to other weeks, other sites or other classes assuming there is availability in the class being transferred to. Please provide at least two weeks' notice for any changes.

What if my child is a few months younger than the age range listed for a class?

We have a policy of plus or minus 6 months. For example, if the age range of a class is "10-14", a child who is 9 and a half at the time of the class is permitted to register for the class.

Do you offer financial aid?

Yes, we believe all children would benefit from the International Ivy experience. For this reason, we do set aside a pool of funds for financial assistance. Financial assistance is offered in the form of discounts between 20% to 50%. We do not give full financial assistance. The application deadline is April 2, 2019 at http://www.iisummer.com/forms/. Decision letters are emailed on April 30, 2019.

How can I find out more about the classes?

Other than the class descriptions in this catalog and on the website, please go to http://internationalivy.blogspot.com/ to see blog posts written by our students and counselors from previous years about their experiences. Please go to https://www.youtube.com/user/Internationalivy/videos to view videos and https://www.flickr.com/photos/98941311@N05/ to view pictures of our program in action!

REGISTRATION

Most families register online at www.iisummer.com. Please go to the "Registration" tab on the main menu. You can also register via mail by downloading the registration forms on the website and mailing it to International Ivy, 61 Maple Street, #636, Summit, NJ 07901.

CONTACT US

We look forward to hearing from you.

Email: info@iisummer.com

Phone: 908-899-1338

Fax: 908-363-1016

Mailing Address: 61 Maple St. #636, Summit, NJ 07901

LIST OF CLASSES BY CATEGORY (page 1 of 2)

Academic and Cross-Disciplinary	
AdventureQuest- Leadership Games	Ages 5-10
Creative Writing Workshop	Ages 8-13
Escape Room Creation	Ages 8-13
Leadership Games for Older Kids	Ages 10-14
Pre-Architecture	Ages 10-14
Pre-Law	Ages 10-14
Public Speaking and Youth Leadership	Ages 8-13
STEAM challenges with littleBits ®	Ages 8-11
Test Prep - ISEE MATH for rising 4th and 5th graders	Ages 9-11
Test Prep - ISEE MATH for rising 6th and 7th graders	Ages 11-13
Test Prep - ISEE VERBAL for rising 4th and 5th graders	Ages 9-11
Test Prep - ISEE VERBAL for rising 6th and 7th graders	Ages 11-13
Vocabulary and Grammar Games	Ages 8-10
War and Peace Games - Game Theory	Ages 10-14
Wee STEAMers Pre-K Camp	Ages 3-4
Youngster - Left Brain Mix	Ages 5-7
Youngster - Programming with Dash & Dot	Ages 5-7
Youngster - Right Brain Mix	Ages 5-7
YouTube Video Creation	Ages 8-13
Arts - Visual & Performing Arts	
Action Flix	Ages 8-11
Canvas Painting	Ages 8-13
Comic Creation	Ages 8-13
Drawing for Beginners	Ages 8-13
Fashion and The Sewing Machine	Ages 8-13
Film-Making	Ages 8-13
Lego Flix	Ages 6-10
Mixed Media Studio Art	Ages 8-13
Stop-Action Animation	Ages 8-13
YouTube Video Creation	Ages 8-13
Computer Programming	
GIRLS ONLY: Programming in Scratch and Hopscotch	Ages 8-11
Programming - Hopscotch	Ages 9-11
Programming - Scratch - Easy	Ages 7-10
Programming in Java - Introduction	Ages 13-15
Programming in Python - Introduction	Ages 10-14
Youngster - Scratch Junior	Ages 5-7
Engineering and Programming with Arduino	Ages 10-14
Raspberry Pi	Ages 10-14
Digital Design	
3D Printing	Ages 10-14
Fashion Design on the Computer	Ages 8-13
Graphic Design and GIMP	Ages 8-13
Website Design with Wordpress	Ages 8-13
YouTube Video Creation	Ages 8-13

LIST OF CLASSES BY CATEGORY (page 2 of 2)

Math & Business	
Investment Literacy and Stock Market Game	Ages 10-14
Lemonade Stand Entrepreneur	Ages 8-10
Math & Problem-Solving Games	Ages 8-10
Math Competition Training	Ages 10-14
Minecraft Math	Ages 8-13
Shark Tank Entrepreneur	Ages 10-14
Minecraft	
Minecraft Advanced	Ages 10-14
Minecraft and Chemistry	Ages 10-14
Minecraft and Coding	Ages 10-14
Minecraft Creative - The Engineer in You	Ages 8-13
Minecraft Survival for Beginners	Ages 5-10
Minecraft Math	Ages 8-13
Robotics	
Robotics Lego ® Animals	Ages 8-10
Robotics Lego ® Vehicles	Ages 8-10
Robotics VEX IQ Animals	Ages 10-15
Robotics VEX IQ Vehicles	Ages 10-15
Youngster - WeDo Robotics	Ages 5-7
Youngster - WeDo Robotics Level 2	Ages 6-8
GIRLS ONLY: Robotics	Ages 11-15
GIRLS ONLY: Robotics-Engineering-Computer Science	Ages 7-9
Science & Engineering	
Anatomy and Surgical Techniques	Ages 10-14
Chemical Engineering: Polymers & Bioplastics	Ages 10-14
Civil Engineering - Bridges and Buildings	Ages 8-11
Crazy Chemworks	Ages 7-10
Detective/Spy Lab	Ages 7-10
Drone Programming	Ages 10-14
Electrical Engineering with Makey-Makey	Ages 8-13
Engineering - Flight and Aerospace	Ages 8-11
Engineering and Programming with Arduino	Ages 10-14
Engineering Discovery Workshop	Ages 7-10
Engineering of Ice Cream	Ages 8-13
Eureka! The Inventors' Camp	Ages 7-10
Forensic Science	Ages 10-14
Raspberry Pi	Ages 10-14
Shockingly Sticky Science	Ages 7-10
Sports & Recreation	
Chess for Beginner and Intermediate Players	Ages 7-14
Fencing	Ages 10-14
Video Game Design	
App Design Using App Inventor	Ages 10-14
App Design Using Game Salad (Apple ios)	Ages 10-14
Roblox Game Development	Ages 10-14
Video Game Creation Advanced	Ages 10-14
Video Game Creation Beginners	Ages 8-10
Virtual Reality	Ages 10-14

LIST OF CLASSES BY AGE (1 of 3)

Ages 3-4	
Wee STEAMers Pre-K Camp	Academic and Cross-Disciplinary
Ages 5-7	
Youngster - Left Brain Mix	Academic and Cross-Disciplinary
Youngster - Programming with Dash & Dot	Academic and Cross-Disciplinary
Youngster - Right Brain Mix	Academic and Cross-Disciplinary
Youngster - Scratch Junior	Programming
Youngster - WeDo Robotics	Robotics
Ages 5-10	
AdventureQuest- Leadership Games	Academic and Cross-Disciplinary
Minecraft Survival for Beginners	Minecraft
Ages 6-8	
Youngster - WeDo Robotics Level 2	Robotics
Ages 6-10	
Lego Flix	Arts - Visual & Performing Arts
Ages 7-9	
GIRLS ONLY: Robotics-Engineering-Computer Science	Robotics
Ages 7-10	
Crazy Chemworks	Science & Engineering
Detective/Spy Lab	Science & Engineering
Engineering Discovery Workshop	Science & Engineering
Eureka! The Inventors' Camp	Science & Engineering
Programming - Scratch - Easy	Programming
Shockingly Sticky Science	Science & Engineering
Ages 7-14	
Chess for Beginner and Intermediate Players	Sports & Recreation
Ages 8-10	
Lemonade Stand Entrepreneur	Math & Business
Math & Problem-Solving Games	Math & Business
Robotics Lego ® Animals	Robotics
Robotics Lego ® Vehicles	Robotics
Video Game Creation Beginners	Video Game Design
Vocabulary and Grammar Games	Academic and Cross-Disciplinary
Ages 8-11	
Action Flix	Arts - Visual & Performing Arts
Civil Engineering - Bridges and Buildings	Science & Engineering
Engineering - Flight and Aerospace	Science & Engineering
GIRLS ONLY: Programming in Scratch and Hopscotch	Programming
STEAM challenges with littleBits ®	Academic and Cross-Disciplinary

LIST OF CLASSES BY AGE (2 of 3)

Ages 8-13	
Canvas Painting	Arts - Visual & Performing Arts
Comic Creation	Arts - Visual & Performing Arts
Creative Writing Workshop	Language Arts
Drawing for Beginners	Arts - Visual & Performing Arts
Electrical Engineering with Makey-Makey	Science & Engineering
Engineering of Ice Cream	Science & Engineering
Escape Room Creation	Academic and Cross-Disciplinary
Fashion and The Sewing Machine	Arts - Visual & Performing Arts
Fashion Design on the Computer	Digital Design
Film-Making	Arts - Visual & Performing Arts
Graphic Design and GIMP	Digital Design
Minecraft Creative - The Engineer in You	Minecraft
Minecraft Math	Minecraft, Math & Business
Mixed Media Studio Art	Arts - Visual & Performing Arts
Public Speaking and Youth Leadership	Academic and Cross-Disciplinary
Stop-Action Animation	Arts - Visual & Performing Arts
Website Design with Wordpress	Digital Design
YouTube Video Creation	Arts - Visual & Performing Arts
Ages 9-11	
Programming - Hopscotch	Programming
Test Prep - ISEE MATH for rising 4th and 5th graders	Academic and Cross-Disciplinary
Test Prep - ISEE VERBAL for rising 4th and 5th graders	Academic and Cross-Disciplinary
Ages 10-14	
3D Printing	Digital Design
Anatomy and Surgical Techniques	Science & Engineering
App Design Using App Inventor	Video Game Design
App Design Using Game Salad (Apple ios)	Video Game Design
Chemical Engineering: Polymers & Bioplastics	Science & Engineering
Drone Programming	Science & Engineering
Engineering and Programming with Arduino	Programming, Science & Engineering
Fencing	Sports & Recreation
Forensic Science	Science & Engineering
Investment Literacy and Stock Market Game	Math & Business
Leadership Games for Older Kids	Academic and Cross-Disciplinary
Math Competition Training	Math & Business
Minecraft Advanced	Minecraft
Minecraft and Chemistry	Minecraft
Minecraft and Coding	Minecraft
Pre-Architecture	Academic and Cross-Disciplinary
Pre-Law	Academic and Cross-Disciplinary
Programming in Python - Introduction	Programming
Raspberry Pi	Programming, Science & Engineering
Roblox Game Development	Video Game Design
Shark Tank Entrepreneur	Math & Business
Video Game Creation Advanced	Video Game Design
Virtual Reality	Video Game Design
War and Peace Games - Game Theory	Academic and Cross-Disciplinary

LIST OF CLASSES BY AGE (3 of 3)

Ages 10-15	
Robotics VEX IQ Animals	Robotics
Robotics VEX IQ Vehicles	Robotics
Ages 11-13	
Test Prep - ISEE MATH for rising 6th and 7th graders	Academic and Cross-Disciplinary
Test Prep - ISEE VERBAL for rising 6th and 7th graders	Academic and Cross-Disciplinary
GIRLS ONLY: Robotics	Robotics
Ages 13-15	
Programming in Java - Introduction	Programming