

SUMMER DISCOVERY COURSES



		Week 1 (6/19/17 - 6/23/17)	Week 2 (6/26/17 - 6/30/17)	Week 3 (7/10/17 - 7/14/17)	Week 4 (7/17/17 - 7/21/17)	Week 5 (7/24/17 - 7/28/17)	Week 6 (7/31/17 - 8/4/17)
		3D Design & Printing	Programming/Coding	Animation	Game Design	Engineering & Robotics	Video Production
G r a d e s	K-2	Mini Makers Learn all about 3D primitive shapes, then expand your knowledge of design and modeling by constructing your own 3D shapes. Choose from a variety of engaging TinkerCad projects, then print your creations on our 3D printer.	Little Coders with Kodables Step into the inventive world of programming by discovering sequences, conditions, loops, functions, and variables. Apply basic knowledge of programming language and sequence to command a robot to move forward and jump.	Early Animators Program your own interactive stories using Stratch Jr. Enjoy the adventure of expressing yourself and your stories in a new way.	Easy Minecraft Modding Designers Enter the imaginative world of Minecraft modding, made easy and fun with Tynker. Deploy mods with one click and invite friends to explore and play!	Little Engineers Explore simple machines with marble runs, sticks, and pulleys. Find your inventive spirit as you build your own Rube Goldberg contraptions.	Little Movie Makers Turn still photos into a moving video and experience the creative thrill of being the director of your very own movie.
			Little Coders with Run Marco! Explore programming concepts such as sequence of commands, different iterations, and conditional blocks with Run Marco! Use BrainPOP resources to discover new skills in computer coding, algorithms, and programming.	Artistic Animators Create a customized animated story or game. Bring your artistic vision to life as you collaborate with others and develop problem-solving skills.	Little Game Makers Build a variety of games to share, including Candy Quest, Dragon Dash, Puppy Adventure, Peep: Nature Walk, Scavenger Hunt, and more!	Little Robot Masters Construct code with colored jigsaw shaped lines in the Blockly application to build instructions for your Dash & Dot robots. Become a team with your robot to solve puzzles and fascinating challenges in the world of robotics.	Video Storytellers with Animoto Design beautiful videos with Animoto that include photos, video clips, maps, and music. Embellish your creations with custom transitions.
G r a d e s	3-5	Mighty Makers Take your ideas from imagination to fabrication. Create models in TinkerCAD and print them on our 3D printer. Create architectural designs, your own measurement tools, or maybe even a Minecraft Bobblehead.	Creative Coders with Tynker Bring your artistic vision to life. Code a graphic design, create a comic strip, and make math patterns with Tynker.	Animators with ScratchED 1 Create animated and interactive art, stories, simulations, and games using Scratch. Share your creations online with friends.	Minecraft Modding Designers Let your imagination run as you mod your private Minecraft server so it's always day, spawns trees, turns water into gold, and grows flowers wherever you walk. Make the impossible possible!	Electrifying Engineers Welcome to the world of electronics! Learn about the tools and materials of electronics, the fundamentals of soldering, and the basics of electricity and circuits.	Behind the Scenes Editors Learn the craft of interviewing and getting just the right angle. Create newsworthy reports as you explore camera techniques, lighting, sound, and B-roll.
			Interactive Coders with Code Studio Create programs to solve real world problems. Consider all the possibilities as you develop interactive games and fascinating stories to share with friends.	Animators with Tynker 1 Design your own animated character, interactive greeting card, or animated comic. If you already took Creative Coder with Tynker, you will continue your learning to create an animation and build more skills.	Interactive Game Makers with Code Studio Create captivating games to share with Code Studio. This course is designed for campers who completed Interactive Coder with Code Studio.	Makers with Arduino 1 Launch your Arduino journey with breadboard wiring, soldering, and coding. Gain the skills and confidence to take on almost any Arduino project you may find or create in the future.	Studio Producers Learn the tricks of the cutting room floor when compiling video for editing and publication. Further your skills with post-publishing YouTube techniques.
G r a d e s	6-8	Model Makers Hone your creative Tinkercad skills with the challenge of making every day objects. Turn 3D models into 2D build plans using Autodesk 123d Design. Follow animated assembly instructions to create slices using the laser cutter, then reconstruct your personalized 3D model.	Accelerated Coders with Tynker Design a game, create an animation, code a graphic design, and make math patterns with Tynker.	Animators with ScratchED 2 Use Scratch to code interactive stories and animations. In the process, learn to think creatively, reason systematically, and work collaboratively — essential skills for everyone in today's society.	Minecraft Modding Designers 2 Design your dream Minecraft universe as you use more advanced modding to mod your private Minecraft server and forge the structures of your imagination.	Makers with Arduino 2 Jump into an accelerated Arduino journey with breadboard wiring, soldering, and coding. Gain the skills and confidence to take on almost any Arduino project you may find or create in the future.	Production Studio Masters Arrange and edit video for publication, using your artistic vision and advancing your cutting room and post-publishing YouTube skills.
			Advanced Coders with Code Studio Create interactive stories and imaginative games while completing the Code Studio beginner and intermediate course. Extend your skills to delve deeper into programming topics.	Animators with Tynker 2 Create your own animated character, interactive greeting card, or animated comic. If you already took Accelerated Coders with Tynker, you will continue your learning to create an animation and build more skills.	Ultimate Game Makers Explore a variety of intriguing game-making ideas to build your own game or gaming applications. Enhance your game making skills with new tools learned from both Scratch and Tynker.	Makers with Raspberry Pi Design and code your own games using Scratch on a Raspberry Pi. Add an extra dimension to your programs by interfacing with the Raspberry Pi Camera module and directly controlling GPIO pins.	Live Broadcasters Learn what it takes to produce a broadcast live! Challenge your ingenuity and fast-thinking as you present entertainment, current affairs, news, music, weather and sports programs on television.