

**WELCOME  
BACK!**

Hands-  
**Science On  
Camp**

SUMMER  
**2022**

## Little Learner Programs (Pre-K)

Printable Class Descriptions and Schedule

Explore the scientific wonders of the world with your child! Our parent-and-child classes focus on scientific themes with exciting hands-on activities and crafts. Each fee covers one Pre-K child (age 3 to 4)\* and one parent or “big buddy” (18 years and older). Additional adults or campers must register separately at the full fee. \*Campers must be age 3 by the start of class.

### Me, Myself, and I

Look at yourself from the inside out. Take an adventure through your body and learn all about the parts that make you YOU! Become the subject as you investigate everything from your five senses to the sound of your own heart. You’ll get to visit Tess, our 50-foot body simulator, along with her cartoon pal, Walt!

### CHEM-Mystery

From the kitchen to the laboratory, reactions happen all around us! Join us as we try to solve different CHEM-mysteries. Find out what chemicals you have to mix to make slime, and explore the states of matter.

|                         | Week 3<br>June 27-Jul 1 | Week 4<br>July 11-15 | Week 5<br>July 18-22 | Week 6<br>July 25-29 |
|-------------------------|-------------------------|----------------------|----------------------|----------------------|
| 9:00am<br>to<br>11:00am | Me, Myself, and I       | CHEM-Mystery         | Me, Myself, and I    | CHEM-Mystery         |
| 12:30pm to<br>2:30pm    | CHEM-Mystery            | Me, Myself, and I    | CHEM-Mystery         | Me, Myself, and I    |

Cost per child per class:  
\$200/non-members | \$180/members  
**Scholarships Available!**

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# Kindergarten

## Printable Class Descriptions and Schedule

Introduce your child to the exciting world of science with our kindergarten programs! Children will explore and experience science with fun, hands-on activities. All children enrolled in kindergarten programs must be entering kindergarten in fall 2020. Children must be comfortable with a classroom environment and be able to stay without a parent or guardian for the 2 ½-hour class.

### Ingenious Engineers

Engineer, we have a problem here! Put your problem-solving skills to the test and see which solution works best. Campers will use simple classroom materials to build structures, toys, and other crazy contraptions as they bring their imaginations to life!

### Junior Big Lab Scientist

Let's go explore science! Observations, gravity, states of matter, air resistance... What on Earth do these words mean? Learn all this and more as you investigate science using our Big Lab where you can drop things from the Mega Tower, test boats in the Water Works pool, and make balls fly high in the air at the Bernoulli table!

|                         | Week 1<br>June 13-17        | Week 2<br>June 20-24        | Week 3<br>June 27-Jul 1     | Week 4<br>July 11-15        | Week 5<br>July 18-22        | Week 6<br>July 25-29        | Week 7<br>August 1-5        | Week 8<br>August 8-12       |
|-------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| 9:00am<br>to<br>11:30am | Junior Big Lab<br>Scientist | Ingenious<br>Engineers      | Junior Big Lab<br>Scientist | Ingenious<br>Engineers      | Junior Big Lab<br>Scientist | Ingenious<br>Engineers      | Junior Big Lab<br>Scientist | Ingenious<br>Engineers      |
| 12:30pm<br>to<br>3:00pm | Ingenious<br>Engineers      | Junior Big Lab<br>Scientist | Ingenious<br>Engineers      | Junior Big Lab<br>Scientist | Ingenious<br>Engineers      | Junior Big Lab<br>Scientist | Ingenious<br>Engineers      | Junior Big Lab<br>Scientist |

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## 1<sup>st</sup> - 2<sup>nd</sup> Grade

### Printable Class Descriptions and Schedule

#### 3,2,1, Blast Off!

Experience the thrill of building your own rocket prototypes! Explore distant planets and create your own mini solar system. Discover what it takes to launch your own air-powered rocket!

#### Big Lab Scientist

Let's build it, race it, and fly it! Test the limits of your imagination when you have the whole Big Lab to work with. Drop melons from the Mega Tower, sail boats across the Water Works pool, and launch a tennis ball over 100 feet in the air!

#### Enchanted Engineering

Structures, bridges, and things that go. Build them all yourself, let's GO! Help some of your favorite fairy tale characters solve engineering challenges. Troll broke your bridge? Build a new vehicle to solve the problem. Big Bad Wolf on his way? Create, inspect, and test your structures to make sure they are strong enough to withstand the strongest winds.

#### Chemical Chaos

Chemistry is everywhere! Learn how chemicals react to make something new as you create cool, slimy, and bubbly reactions. Observe how pigments separate to create a burst of color. Chemistry is not just fun, it's chaotic!

#### Wizard Science

Is it magic or science? You don't have to take a mysterious train to find out in this wizard academy. Investigate the science behind growing beasts, disappearing water and much more. Amaze your family and friends in a magic show on the last day of class!

#### NEW Ooze-rageous

Prepare your senses for this adventure as we discover the stinkiest, slimiest, and gooey-est things nature has to offer. Create all kinds of sticky, icky, yucky solutions guaranteed to gross out your family and friends. Get ready for an ooze-tastic time!

|                         | Week 1<br>June 13-17  | Week 2<br>June 20-24  | Week 3<br>June 27-Jul 1 | Week 4<br>July 11-15  | Week 5<br>July 18-22  | Week 6<br>July 25-29  | Week 7<br>August 1-5  | Week 8<br>August 8-12 |
|-------------------------|-----------------------|-----------------------|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 9:00am<br>to<br>11:30am | 3,2,1 Blast Off       | Wizard Science        | 3,2,1 Blast Off         | Wizard Science        | 3,2,1 Blast Off       | Wizard Science        | 3,2,1 Blast Off       | Wizard Science        |
|                         | Enchanted Engineering | Ooze-Rageous          | Enchanted Engineering   | Ooze-Rageous          | Enchanted Engineering | Ooze-Rageous          | Enchanted Engineering | Ooze-Rageous          |
|                         | Big Lab Scientist     | Chemical Chaos        | Big Lab Scientist       | Chemical Chaos        | Big Lab Scientist     | Chemical Chaos        | Big Lab Scientist     | Chemical Chaos        |
| 12:30pm<br>to<br>3:00pm | Wizard Science        | 3,2,1 Blast Off       | Wizard Science          | 3,2,1 Blast Off       | Wizard Science        | 3,2,1 Blast Off       | Wizard Science        | 3,2,1 Blast Off       |
|                         | Ooze-Rageous          | Enchanted Engineering | Ooze-Rageous            | Enchanted Engineering | Ooze-Rageous          | Enchanted Engineering | Ooze-Rageous          | Enchanted Engineering |
|                         | Chemical Chaos        | Big Lab Scientist     | Chemical Chaos          | Big Lab Scientist     | Chemical Chaos        | Big Lab Scientist     | Chemical Chaos        | Big Lab Scientist     |

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# WELCOME BACK!

# Hands- On Science Camp

## SUMMER 2022

## 3<sup>rd</sup> – 4<sup>th</sup> Grade

### Printable Class Descriptions and Schedule

#### Chemical Connection

Ever wonder what would happen if you mix two substances together? Find out in this fun (if not exactly tidy!) class as you test various ingredients to create cool chemical reactions. You'll even make your own tie-dye shirt!

#### Fantastic Physics

Physics makes the world go around—literally. Learn its secrets using the Big Lab, where you will build and design roller coasters and sailboats. Drop objects from the three-story Mega Tower to investigate gravity's force. Energy and motion take center stage in this week of "phantastically phun" physics.

#### Bio, Bio, Everywhere!

From the plants growing in your homes to the bacteria growing on your hands, you can find life everywhere on Earth! Explore the different branches of biology by dissecting a squid, looking at microorganisms, and making a terrarium. Grow your own cell culture to discover the microscopic organisms that surround us every day. Discover the secrets of life on your journey through the wonders of biology.

#### Build It!

Put your engineering skills to the test as you use simple classroom materials to build mammoth structures, unique toys, and other crazy contraptions. Find out what it takes to be an engineer as you see the things you imagine appear!

#### Survival Science

Imagine this--you're stranded in the wilderness with no food and water. Where will you sleep? What will you eat? How will you live? Learn fun practical skills to survive, whether you find yourself in the cold, barren forest or on a tropical deserted island!

#### NEW Rocket Factory

Ready for lift off in 3...2...Houston we have a problem! Join us as we try to figure out what challenges NASA scientists face when trying to launch a rocket to space. Conduct your own experiments and trajectory tests, and experience the fun of launching your own engine-powered rocket on the last day.

|                         | Week 1<br>June 13-17     | Week 2<br>June 20-24     | Week 3<br>June 27-Jul 1  | Week 4<br>July 11-15     | Week 5<br>July 18-22     | Week 6<br>July 25-29     | Week 7<br>August 1-5     | Week 8<br>August 8-12    |
|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 9:00am<br>to<br>11:30am | Bio, Bio,<br>Everywhere! | Chemical<br>Connection   | Bio, Bio,<br>Everywhere! | Chemical<br>Connection   | Bio, Bio,<br>Everywhere! | Chemical<br>Connection   | Bio, Bio,<br>Everywhere! | Chemical<br>Connection   |
|                         | Fantastic<br>Physics     | Build It!                | Fantastic<br>Physics     | Build It!                | Fantastic<br>Physics     | Build It!                | Fantastic<br>Physics     | Build It!                |
|                         | Rocket<br>Factory        | Survival<br>Science      | Rocket<br>Factory        | Survival<br>Science      | Rocket<br>Factory        | Survival<br>Science      | Rocket<br>Factory        | Survival<br>Science      |
| 12:30pm<br>to<br>3:00pm | Chemical<br>Connection   | Bio, Bio,<br>Everywhere! | Chemical<br>Connection   | Bio, Bio,<br>Everywhere! | Chemical<br>Connection   | Bio, Bio,<br>Everywhere! | Chemical<br>Connection   | Bio, Bio,<br>Everywhere! |
|                         | Build It!                | Fantastic<br>Physics     | Build It!                | Fantastic<br>Physics     | Build It!                | Fantastic<br>Physics     | Build It!                | Fantastic<br>Physics     |
|                         | Survival<br>Science      | Rocket<br>Factory        | Survival<br>Science      | Rocket<br>Factory        | Survival<br>Science      | Rocket<br>Factory        | Survival<br>Science      | Rocket<br>Factory        |

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## 5<sup>th</sup> – 6<sup>th</sup> Grade

### Printable Class Descriptions and Schedule

#### Bountiful Biology

**BIOLOGY.** It grows on you! Find out what organisms require to exist. Explore human and animal anatomy through animal dissections. Visit our Cell Theater to see how single-celled organisms survive and grow. See the world from a new perspective!

#### Extreme Park

Extreme Park needs you to take its attractions to the extreme! Stretch your ingenuity to the max while working with batteries, hydraulics, magnets and more. Push your rides to the limits by making them bigger, faster, steeper, and more extreme. It's going to be an awesome week of engineering.

#### FULL DAY Skate Science

Carve out time this summer to explore the mechanics of skating. Put your "goofyfoot" forward as you dissect ollies, vert skating, and all the other physics of fun on wheels. We'll highlight engineering as participants design, build, and decorate their own customized skateboard that will be theirs to keep.

#### Chemical Meltdown

Watch science in action through a chemical reaction! Test different reactants to uncover how chemical reactions work. Discover the difference between a physical reaction and a chemical reaction. Get ready to get messy and have a chemical meltdown!

#### Rockin Robots

How does a robot work? What are some ways robots can help us? Roll your way into robotics and take an introductory course to answer these questions and much more. Make different kinds of robots that can lift, push, and even create artistic masterpieces. Dive into the world of coding and learn to code a robot that can recognize different colors and navigate its way through a maze.

#### FULL DAY Eclectic Engineering

How do we make a robot arm move? What makes structures strong enough to withstand earthquakes? Answer these questions and more while drafting new designs and perfecting problem-solving skills. Draw on multiple sciences as you develop the skills to construct the future!

|                         | Week 1<br>June 13-17                       | Week 2<br>June 20-24                | Week 3<br>June 27-Jul 1                    | Week 4<br>July 11-15                | Week 5<br>July 18-22                       | Week 6<br>July 25-29                | Week 7<br>August 1-5                       | Week 8<br>August 8-12               |
|-------------------------|--------------------------------------------|-------------------------------------|--------------------------------------------|-------------------------------------|--------------------------------------------|-------------------------------------|--------------------------------------------|-------------------------------------|
| 9:00am<br>to<br>11:30am | Chemical<br>Meltdown                       | Bountiful<br>Biology                | Chemical<br>Meltdown                       | Bountiful<br>Biology                | Chemical<br>Meltdown                       | Bountiful<br>Biology                | Chemical<br>Meltdown                       | Bountiful<br>Biology                |
|                         | Extreme Park                               | Rockin<br>Robots                    | Extreme Park                               | Rockin<br>Robots                    | Extreme Park                               | Rockin<br>Robots                    | Extreme Park                               | Rockin<br>Robots                    |
| 12:30pm<br>to<br>3:00pm | Bountiful<br>Biology                       | Chemical<br>Meltdown                | Bountiful<br>Biology                       | Chemical<br>Meltdown                | Bountiful<br>Biology                       | Chemical<br>Meltdown                | Bountiful<br>Biology                       | Chemical<br>Meltdown                |
|                         | Rockin<br>Robots                           | Extreme Park                        | Rockin<br>Robots                           | Extreme Park                        | Rockin<br>Robots                           | Extreme Park                        | Rockin<br>Robots                           | Extreme Park                        |
| 9:00am<br>to<br>3:00pm  | <b>FULL DAY</b><br>Eclectic<br>Engineering | <b>FULL DAY</b><br>Skate<br>Science | <b>FULL DAY</b><br>Eclectic<br>Engineering | <b>FULL DAY</b><br>Skate<br>Science | <b>FULL DAY</b><br>Eclectic<br>Engineering | <b>FULL DAY</b><br>Skate<br>Science | <b>FULL DAY</b><br>Eclectic<br>Engineering | <b>FULL DAY</b><br>Skate<br>Science |

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**2022**

## 7<sup>th</sup> – 8<sup>th</sup> Grade

### Printable Class Descriptions and Schedule

#### FULL DAY a-MAZE-ing Robots

Design and build an independent robot that can navigate its way through a maze. Watch as your robots perform a dance you choreograph just for them. Now if you could only teach them to clean your room!

#### FULL DAY Lights! Camera! Science!

Dive into the world of photography and learn the science behind the lens. Create a pinhole camera to learn how cameras take in light. Dissect film and bend light with lasers, lenses, and mirrors. Don't forget the flash!

#### FULL DAY Radical Reactions

Take chemistry to a whole new level! Be a chemist and experiment with elephant toothpaste, freeze fruit in liquid nitrogen, and discover the chemistry used in rocket engines by creating your own combustion reactions.

#### FULL DAY Biolo-Gee Whiz

What does your brain really look like? How does your circulatory system work? Find the answers to these questions and more as you explore human anatomy. Delve into the medical industry and learn how various organs function by dissecting fetal pigs. By the end of the week, you will earn your M.D. certificate--Museum Doctor, that is!

#### FULL DAY Roving the RED Planet

Calling all scientists! Delve into the world of design and be part of a team that lands a rover on an uncharted planet. Plan and execute a mission to Mars. Explore the problems faced by NASA scientists and astronauts trying to create a livable world far from our planet. Discover the similarities and differences between Mars and Earth. This class was created in conjunction with NASA's Jet Propulsion Laboratory.

|                                           | Week 1<br>June 13-17           | Week 2<br>June 20-24     | Week 3<br>June 27-Jul 1        | Week 4<br>July 11-15     | Week 5<br>July 18-22           | Week 6<br>July 25-29     | Week 7<br>August 1-5           | Week 8<br>August 8-12    |
|-------------------------------------------|--------------------------------|--------------------------|--------------------------------|--------------------------|--------------------------------|--------------------------|--------------------------------|--------------------------|
| <b>Full Day</b><br>9:00am<br>to<br>3:00pm | Lights!<br>Camera!<br>Science! | Roving the<br>Red Planet | Lights!<br>Camera!<br>Science! | Roving the<br>Red Planet | Lights!<br>Camera!<br>Science! | Roving the<br>Red Planet | Lights!<br>Camera!<br>Science! | Roving the<br>Red Planet |
|                                           | Chemical<br>Meltdown           | a-MAZE-ing<br>Robots     | Biolo-Gee<br>Whiz              | Radical<br>Reactions     | a-MAZE-ing<br>Robots           | Biolo-Gee<br>Whiz        | Radical<br>Reactions           | a-MAZE-ing<br>Robots     |

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