



## 2021 Summer Day Camps

(as of February 10, 2021)

OMSI is excited and ready to provide a change of scenery for K–8 students with socially distanced day camps that help build critical thinking skills, social skills, and put science at the center of problem-solving.

We have successfully run day camps and child care throughout the pandemic, including summer 2020, and we will continue to apply this knowledge and expertise in summer 2021. Day camps will be in small stable groups and offer subjects like dinosaur hunting, astronomy, animation, science of soccer and more.

Registration Opens February 15: [omsi.edu/summer](https://omsi.edu/summer)

Location  
Oregon Museum of Science and Industry  
1945 SE Water Avenue  
Portland, Oregon 97214

### Grades K-1

#### AT THE SEASHORE

Dive in and make some waves as you explore how land and water come together at the seashore! You will investigate sandy beaches, shells, fish, whales and other mysterious creatures of the sea. You will even walk inside a model of a 50-foot whale!

June 21-25, 2021	OMSI	9am-4pm, Mon-Fri	\$310 Member • \$388 Non-member
July 5-9, 2021	OMSI	9am-4pm, Mon-Fri	\$310 Member • \$388 Non-member
July 19-23, 2021	OMSI	9am-4pm, Mon-Fri	\$310 Member • \$388 Non-member
August 2-6, 2021	OMSI	9am-4pm, Mon-Fri	\$310 Member • \$388 Non-member
August 16-20, 2021	OMSI	9am-4pm, Mon-Fri	\$310 Member • \$388 Non-member

#### CRITTER SEEKERS

Is a bald eagle really bald? Where do beetles live? Discover the answers! You will become amateur entomologists and ornithologists as you explore creatures of air, land and pond. You'll will even make bird feeders and learn how to invite beneficial and beautiful wildlife into your own backyard.

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#### DINOSAUR HUNTERS

You're on the hunt—for dinosaurs! Learn about the fascinating world of dinosaurs by piecing together dinosaur puzzles and digging for bones like a paleontologist. We'll be asking questions like "What colors were dinosaurs? How did they move? Did they care for their young?" and discovering how scientists figure out the answers. This class includes a field trip to OMSI's Earth Science Hall.

June 21-26, 2021	OMSI	9am-4pm, Mon-Fri	\$310 Member • \$388 Non-member
July 5-9, 2021	OMSI	9am-4pm, Mon-Fri	\$310 Member • \$388 Non-member
July 19-23, 2021	OMSI	9am-4pm, Mon-Fri	\$310 Member • \$388 Non-member
August 2-6, 2021	OMSI	9am-4pm, Mon-Fri	\$310 Member • \$388 Non-member
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### KITCHEN CHEMISTRY

Turn your inner chef into a kitchen chemist! In this edible chemistry adventure, you'll explore the science of cooking as we make muffins and "munch, munch" more! Discover the strange substance produced when mixing cornstarch and water, and learn the difference between a tablespoon, a teaspoon and other key kitchen measurements. Note: Please consider any food allergies before enrolling.

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### OUTER SPACE ADVENTURE

Blast off to fun! Learn about our solar system to discover what makes earth so special, how moon phases work, and why we have night and day! Ask big questions about the universe and get your hands dirty with crater models as you become a top notch astronomer. You will even visit OMSI's Kendall Planetarium to explore our fascinating universe from constellations to a crescent moon! Don't miss the adventure launching this summer!

June 28-July 2, 2021	OMSI	9am-4pm, Mon-Fri	\$310 Member • \$388 Non-member
July 12-16, 2021	OMSI	9am-4pm, Mon-Fri	\$310 Member • \$388 Non-member
July 26-30, 2021	OMSI	9am-4pm, Mon-Fri	\$310 Member • \$388 Non-member
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### P.E.T.S.: PET EDUCATION TRAINING SCHOOL

Are you a dog person or a cat person? Find out as you learn to care for some of the neatest and wildest pets around. From Ants to Zebra Finches, and everything in between, you will discover more than you ever thought possible about pets big and small. This class will even include animal visitors.

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### SCIENCE MAGIC

Step right up! Step right up! Take a look at how magical science can seem! Wonder at bubbling potions and marvel at levitating objects as you discover the science that makes it all work. Try your hand at making color changing creations, moving unmovable seeming objects, sending astounding messages, and revealing unseen images. From chemistry to physics you will master much to become a science magician!

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## WILD INVENTIONS

What will you think of next? Put your imagination to the test as you brainstorm and build some exciting creations. You will visit OMSI's Turbine Hall to get inspiration and learn about concepts as you become a young inventor. You won't want to miss this opportunity to think big and make your dreams a reality.

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## Grades 2-3

### 3-2-1 BLAST OFF!

Do you have what it takes to be an astronaut? Yes! From building and launching your own rocket to learning how to track a rocket's flight, your countdown to summer begins with this blast of a class!

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August 16- 20,2021	OMSI	9am-4pm, Mon-Fri	\$310 Member • \$388 Non-member

### ANIMATION 2-3

Quiet on set! Look at animation from the director's chair. You will design storyboards, create sets and characters, and produce mini-movies. How? You'll get hands on experience with digital video cameras, clay sculptures, time-lapse portraits, and more; then share and download your movie in full HD to show your friends and family. Specific links will be supplied each class.

June 21-25, 2021	OMSI	9am-4pm, Mon-Fri	\$336 Member • \$420 Non-member
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### AWESOME ASTRONOMY

Stars, constellations, and nebulas—oh my! Do you know how high you can jump on the Moon? Or how to tell time with the sun and stars? Unlock the stories of your favorite constellations—and the science behind them—this summer in the OMSI Physics Lab and Kendall Planetarium.

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### COOKING UP SCIENCE

Summer just got a little tastier! Bite into the science of cooking and nutrition, and the chemistry concepts that make food so fascinating (and delicious). During this class you will visit the OMSI Chemistry Lab to learn more about the science of food and may even visit with a local food production company. Enjoy! Note: Please consider any food allergies before enrolling in this class.

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## COOL CONCOCTIONS

Chemistry takes a fun twist as you mix, measure and pour chemicals into amazing (and sticky) combinations. You'll grow crystals, make slimes, create dye, and even make experiments you can eat! The class will also visit OMSI's chemistry lab. This week will have you looking at chemistry in a wild new way.

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## DESIGN STUDIO

Want to be a scientist or an artist? Why not be both! Think creatively and cleverly as you work to complete engineering-design challenges that include building model roller coasters, race cars, and flight suits. Students will solve problems, build creations, and even bring some of their own inventions to life in this exciting introduction to the engineering-design process. This class includes a visit from the OMSI Design Lab educators.

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## DIGITAL DESIGN

Are you into computers? Get into digital design where you can use your passion to become a programmer, artist, and engineer! Get your creative computer juices flowing as you design tee-shirts, compose music, create a virtual car and more! This experience is perfect for students at all levels of computer know-how.

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## DINOSAUR DISCOVERIES

Get ready for a wild week as you go on a Jurassic adventure into the age of dinosaurs! How do scientists know what dinosaurs looked like? What did they eat? How fast could they run? Find out as you visit OMSI's Paleontology lab and embark on other prehistoric explorations.

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## EXPLOSIVE VOLCANOES!

Ever seen a volcano erupt? Now is your chance! Dig into this geologic adventure with visits to OMSI's Earth Science Hall included. You're sure to take home at least one geologic treasure of your own.

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### LEGO® BUILDING BLOCKS

Can you really do science with LEGO? Of course you can! Experiment with LEGO bricks as we explore engineering and physics concepts. From building fast-moving feats of science to visualizing the tiniest bits of matter, you'll look at the world—and LEGO—differently than ever before.

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### LEGO® WEDO ROBOTICS

Get started with robotics early! Using the most advanced LEGO 2.0 WeDo Construction kits you will develop a love of robotics while working cooperatively to code and build using motors, sensors, gears, pulleys, and more. Get your hands on this exciting new technology this summer!

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## Grades 4-5

### ANIMATION 4-5

Quiet on set! Look at animation from the director's chair. You will design storyboards, create sets and characters, and produce mini-movies. How? You'll get hands on experience with digital video cameras, clay sculptures, time-lapse portraits, and more; then share and download your movie in full HD to show your friends and family. Specific links will be supplied each class.

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August 2-6, 2021	OMSI	9am-4pm, Mon-Fri	\$336 Member • \$420 Non-member
August 9-13, 2021	OMSI	9am-4pm, Mon-Fri	\$336 Member • \$420 Non-member
August 16-20, 2021	OMSI	9am-4pm, Mon-Fri	\$336 Member • \$420 Non-member

### COSMIC EXPLORERS

Learn about and help design the future of human solar system exploration! Build model landers to safely visit other planets, discover how gravity assists for spacecraft work, and even launch rockets.

July 12-16, 2021	OMSI	9am-4pm, Mon-Fri	\$310 Member • \$388 Non-member
July 26, 2021	OMSI	9am-4pm, Mon-Fri	\$310 Member • \$388 Non-member

### DIGITAL BOOTCAMP 4-5

Become the next digital rockstar! You will learn the simple, cutting-edge design techniques for your own web page, blog, photo gallery, and more! You'll understand the languages and codes that link computers all over the world, and build the web design skills you need to tell your stories!

June 21-25, 2021	OMSI	9am-4pm, Mon-Fri	\$315 Member • \$394 Non-member
July 26-30, 2021	OMSI	9am-4pm, Mon-Fri	\$315 Member • \$394 Non-member
August 23-27, 2021	OMSI	9am-4pm, Mon-Fri	\$315 Member • \$394 Non-member

### DRONE PILOT TRAINING 4-5

Let your passion for drones take flight! Your excitement will soar while exploring do-it-yourself building techniques, honing programming expertise, completing flight challenges, and learning aerial photography skills.

June 21-25, 2021	OMSI	9am-4pm, Mon-Fri	\$315 Member • \$394 Non-member
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August 9-13, 2021	OMSI	9am-4pm, Mon-Fri	\$315 Member • \$394 Non-member

### GAMES GALORE 4-5

Calling all gamers! Maybe you hold all of the high scores but do you have what it takes to design your own video game? Of course you do! Your work will come to life with characters that move and interact in a compelling video game world thanks to your own game development skills.

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### JUNIOR VETERINARIAN

Do you love animals? Become a junior veterinarian! From geckos to giraffes, learn about the diverse anatomy and physiology that animal doctors must understand to keep livestock, pets, and zoo creatures healthy. Explore animal husbandry techniques, create enrichment activities for our best friends, and learn about how we can diagnose and treat non-human patients when they aren't feeling well.

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### LEGO® MACHINES

Hey there LEGO lovers! Design and create a catapult while you learn the physical forces at work in simple and complex machines—all with LEGO bricks. Use a lever, inclined plane, wheel and axle, and pulley to construct a variety of exciting machines.

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August 2-6, 2021	OMSI	9am-4pm, Mon-Fri	\$310 Member • \$388 Non-member
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### LEGO® ROBOTICS 4-5

Combine the versatility of the LEGO building system with the most advanced technology LEGO has ever developed. We'll help you unleash the creative powers of the new LEGO MINDSTORMS EV3 to create and command robots that walk, talk, think and do anything you can imagine. Get your hands on this exciting new technology at our summer LEGO Robotics courses—beginner and advanced classes available.

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### NATURAL DISASTERS UNLOCKED

Somewhere the ground is rolling and a mountain is shaking—where are you? At OMSI! Learn all about the science behind avalanches, volcanoes, and earthquakes this summer. Take a deep look at natural disasters common in the Pacific Northwest to experience the history and beauty of volcanoes.

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### SCIENCE OF SOCCER

Ever wonder about the science behind what you see on the pitch at Providence Park? Why does the ball curve on a corner kick? How quickly does a goalkeeper need to react to make a save? The Science of Soccer is your chance to see how science, technology, engineering, art and math are revolutionizing the game. No cleats needed though – this week you will be using your mind to dissect and better understand the sport.

August 16-20, 2021	OMSI	9am-4pm, Mon-Fri	\$310 Member • \$388 Non-member
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### TRAIN ENGINEER 4-5

All aboard for a rail adventure! Explore historic steam and diesel locomotives to reveal the marvels of engineering behind these behemoth machines. Become an engineer designing trains of the future or sit down as a city planner integrating multi-modal transport into your town. See the rail transport industry as you've never seen it before! This class will include a potential field trip on a train. Parent will receive the week's schedule two weeks prior to the first day of class. This class is hosted in collaboration with the Oregon Rail Heritage Center.

July 5-9, 2021	OMSI	9am-4pm, Mon-Fri	\$310 Member • \$388 Non-member
July 26-30, 2021	OMSI	9am-4pm, Mon-Fri	\$310 Member • \$388 Non-member
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## Grades 4-8

### ANIMATION II

Take your animation skills to the next level! Bring your stop-motion ideas and animated designs to life, continue a mini-movie or start with a fresh, new project. We'll sample advanced techniques, expand on familiar practices, and continue to welcome all types of skill levels, knowledge and creative styles. Note: This advanced class is for students in grades 4-8 who have completed the "OMSI Animation" class.

June 28-July 2, 2021	OMSI	9am-4pm, Mon-Fri	\$336 Member • \$420 Non-member
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### DRONE PILOT TRAINING (GIRLS ONLY)

Calling all girls! Let your passion for drones take flight! Your excitement will soar while exploring do-it-yourself building techniques, honing programming expertise, completing flight challenges, and learning aerial photography skills.

July 19-23, 2021	OMSI	9am-4pm, Mon-Fri	\$315 Member • \$394 Non-member
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### GAMES GALORE (GIRLS ONLY)

Calling all girls! Maybe you hold all of the high scores but do you have what it takes to design your own video game? Of course you do! Your work will come to life with characters that move and interact in a compelling video game world thanks to your own game development skills. Note: This class is for students in grades 4-8.

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### GAMES GALORE II

Take gaming to the next level! You mastered the first round of Games Galore, now build on those skills. Challenge yourself to master how computers and keyboards interact to control programs. Using programming tools to add running scores, life meters and other features, you'll make your games even more interactive! Note: This advanced class is for students in grades 4-8 who have completed the OMSI Games Galore class.

July 19-23, 2021	OMSI	9am-4pm, Mon-Fri	\$315 Member • \$394 Non-member
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### LEGO® ROBOTICS (GIRLS ONLY)

Calling all girls! Combining the versatility of the LEGO building system with the most advanced technology LEGO has ever developed. We'll help you unleash the creative powers of the new LEGO MINDSTORMS EV3 to create and command robots that walk, talk, think and do anything you can imagine. Get your hands on this exciting new technology at our summer LEGO Robotics courses—beginner and advanced classes available. Note: This class is for students in grades 4-8.

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August 2-6, 2021	OMSI	9am-4pm, Mon-Fri	\$315 Member • \$394 Non-member
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### LEGO® ROBOTICS II (GIRLS ONLY)

Calling all girls! Combine the versatility of the LEGO building system with the most advanced technology LEGO has ever developed. We'll help you unleash the creative powers of the new LEGO MINDSTORMS EV3 to create and command robots that walk, talk, think and do anything you can imagine. Get your hands on this exciting new technology at our summer LEGO Robotics courses—beginner and advanced classes available. Note: This advanced class is for students in grades 4-8 who have completed an intro to LEGO Robotics class.

August 9-13, 2021	OMSI	9am-4pm, Mon-Fri	\$315 Member • \$394 Non-member
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## Grades 6-8

### ANIMATION 6-8

Quiet on set! Look at animation from the director's chair. You will design storyboards, create sets and characters, and produce mini-movies. How? You'll get hands on experience with digital video cameras, clay sculptures, time-lapse portraits, and more; then share and download your movie in full HD to show your friends and family. Specific links will be supplied each class.

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August 16-20, 2021	OMSI	9am-4pm, Mon-Fri	\$336 Member • \$420 Non-member

### CODING GRADES 6-9

If you can dream it – you can code it! Get started on the right foot learning the ins and outs of programming. Students will explore visual languages and get an introduction to many of the most commonly used programming methods. Throughout the week you will complete challenges and build skills to increase your confidence in computer science.

July 12-16, 2021	OMSI	9am-4pm, Mon-Fri	\$315 Member • \$394 Non-member
August 2-6, 2021	OMSI	9am-4pm, Mon-Fri	\$315 Member • \$394 Non-member
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### CODING (GIRLS-ONLY) GRADES 6-9

Calling all girls! If you can dream it – you can code it! Get started on the right foot learning the ins and outs of programming. Students will explore visual languages and get an introduction to many of the most commonly used programming methods. Throughout the week you will complete challenges and build skills to increase your confidence in computer science.

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August 16-20, 2021	OMSI	9am-4pm, Mon-Fri	\$315 Member • \$394 Non-member

### CODING II GRADES 6-9

Take your coding skills to the next level! Gain software development, design, programming and coding know how. Student will explore C#, C++, JavaScript/HTML web application development, and Java programming languages. Students will work on challenges and practice real-world scenarios to gain the critical skills needed to shape the future. Note: This advanced class is for students with substantial prior experience or who have already completed the OMSI Coding class.

August 9-13, 2021	OMSI	9am-4pm, Mon-Fri	\$315 Member • \$394 Non-member
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### DIGITAL BOOTCAMP 6-8

Become the next digital rockstar! You will learn the simple, cutting-edge design techniques for your own web page, blog, photo gallery, and more! You'll understand the languages and codes that link computers all over the world, and build the web design skills you need to tell your stories!

June 28-July 2, 2021	OMSI	9am-4pm, Mon-Fri	\$315 Member • \$394 Non-member
August 9-13, 2021	OMSI	9am-4pm, Mon-Fri	\$315 Member • \$394 Non-member

### DRONE PILOT TRAINING 6-8

Let your passion for drones take flight! Your excitement will soar while exploring do-it-yourself building techniques, honing programming expertise, completing flight challenges, and learning aerial photography skills.

July 12-16, 2021	OMSI	9am-4pm, Mon-Fri	\$315 Member • \$394 Non-member
July 26-30, 2021	OMSI	9am-4pm, Mon-Fri	\$315 Member • \$394 Non-member



### FSI: FORENSIC SCIENCE INVESTIGATOR

Sherlock Holmes has some competition—you! Lift prints, examine DNA, and use a variety of other forensic techniques to learn what it takes to solve crime. You will even visit with a real police department as you discover the world of modern forensics.

June 28-July 2, 2021	OMSI	9am-4pm, Mon-Fri	\$310 Member • \$388 Non-member
July 19-23, 2021	OMSI	9am-4pm, Mon-Fri	\$310 Member • \$388 Non-member
August 2-6, 2021	OMSI	9am-4pm, Mon-Fri	\$310 Member • \$388 Non-member

### GAMES GALORE 6-8

Calling all gamers! Maybe you hold all of the high scores but do you have what it takes to design your own video game? Of course you do! Your work will come to life with characters that move and interact in a compelling video game world thanks to your own game development skills.

June 21-25, 2021	OMSI	9am-4pm, Mon-Fri	\$315 Member • \$394 Non-member
July 5-9, 2021	OMSI	9am-4pm, Mon-Fri	\$315 Member • \$394 Non-member
August 2-6, 2021	OMSI	9am-4pm, Mon-Fri	\$315 Member • \$394 Non-member
August 23-27, 2021	OMSI	9am-4pm, Mon-Fri	\$315 Member • \$394 Non-member

### LEGO® ARCHITECTURE & CITIES

What does it take to build the world's strongest city? We're using your favorite colorful bricks—LEGO—to break down city planning, civil engineering, and the world of design. After learning about earthquakes and how to construct buildings to withstand them, we'll team up to build the world's strongest city, visiting OMSI's Turbine Hall for information and inspiration.

July 19-23, 2021	OMSI	9am-4pm, Mon-Fri	\$310 Member • \$388 Non-member
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### LEGO® ROBOTICS 6-8

Combine the versatility of the LEGO building system with the most advanced technology LEGO has ever developed. We'll help you unleash the creative powers of the new LEGO MINDSTORMS EV3 to create and command robots that walk, talk, think and do anything you can imagine. Get your hands on this exciting new technology at our summer LEGO Robotics courses—beginner and advanced classes available.

June 21-25, 2021	OMSI	9am-4pm, Mon-Fri	\$315 Member • \$394 Non-member
July 26-30, 2021	OMSI	9am-4pm, Mon-Fri	\$315 Member • \$394 Non-member

### TRAIN ENGINEER GRADES 6-8

All aboard for a rail adventure! Explore historic steam and diesel locomotives to reveal the marvels of engineering behind these behemoth machines. Become an engineer designing trains of the future or sit down as a city planner integrating multi-modal transport into your town. See the rail transport industry as you've never seen it before! This class will include a potential field trip on a train. Parent will receive the week's schedule two weeks prior to the first day of class. This class is hosted in collaboration with the Oregon Rail Heritage Center.

June 21-25, 2021	OMSI	9am-4pm, Mon-Fri	\$310 Member • \$388 Non-member
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