

OMSI Day Camps

Grades K-1

Day Camp Title	Grade Level	Description	Start Date
At the Seashore	Grades K-1	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!	6/26/23 7/10/23 7/24/23 8/7/23 8/21/23
Critter Seekers	Grades K-1	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 will visit with live animals, make bird feeders, and learn how to invite beneficial and beautiful wildlife into your own backyard.	6/26/23 7/10/23 7/24/23 8/7/23 8/21/23
Dinosaur Hunters	Grades K-1	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 will 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 will visit with OMSI's Paleontology lab educators as they search for answers to these questions and more.	6/26/23 7/10/23 7/24/23 8/7/23 8/21/23
Kitchen Chemistry	Grades K-1	Turn your inner chef into a kitchen chemist! In this edible chemistry adventure, you will 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, teaspoon, and other key kitchen measurements. Note: Please consider any food allergies and dietary restrictions before enrolling in this class.	6/26/23 7/10/23 7/24/23 8/7/23 8/21/23
Outer Space Adventure	Grades K-1	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!	7/5/23 7/17/23 7/31/23 8/14/23 8/28/23
P.E.T.S.: Pet Education Training School	Grades K-1	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.	7/5/23 7/17/23 7/31/23 8/14/23 8/28/23
Science Magic	Grades K-1	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!	6/19/23 7/5/23 7/17/23 7/31/23 8/14/23 8/28/23
Wild Inventions	Grades K-1	What will you think of next? Put your imagination to the test as you brainstorm and build exciting creations. Discover the inspiring contraptions all around us from ramps to flying objects as you become a young inventor. You won't want to miss this opportunity to dream big and make your dreams a reality.	6/19/23 7/5/23 7/17/23 7/31/23 8/14/23 8/28/23

Grades 2-3

Day Camp Title	Grade Level	Description	Start Date
3-2-1 Blast Off	Grades 2-3	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! Students launch their rockets at a Portland area park on Friday.	6/26/2023 7/10/2023 7/17/2023 7/24/2023 8/7/2023 8/21/2023
Animation 2-3	Grades 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 will 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.	6/19/23 6/26/23 7/5/23 7/10/23 7/17/23 7/24/23 7/31/23 8/7/23 8/14/23 8/21/23 8/28/23

Awesome Astronomy	Grades 2-3	Stars, constellations, and nebulae—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 with exciting experiments and a visit to OMSI's Kendall Planetarium. This class will even have a potential field trip to the Evergreen Aviation Museum or other area destination.	7/10/23 7/17/23 7/31/23 8/14/23 8/21/23 8/28/23
Cooking Up Science	Grades 2-3	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 and dietary restrictions before enrolling in this class.	7/5/23 7/24/23 7/31/23 8/7/23 8/14/23
Cool Concoctions	Grades 2-3	Chemistry takes a fun twist as you mix, measure and pour chemicals into amazing and sticky combinations. You will grow crystals, make slimes, create dye, and even make experiments you can eat! The class will even visit with OMSI's chemistry lab educators. This week will have you looking at chemistry in a wild new way.	6/26/23 7/5/23 7/17/23 8/7/23 8/21/23
Design Studio	Grades 2-3	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.	7/5/23 7/17/23 8/14/23
Digital Design	Grades 2-3	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 T-shirts, compose music, create a virtual car, and more! This experience is perfect for students at all levels of computer know-how.	6/19/23 7/10/23 7/17/23 7/24/23 8/7/23 8/21/23
Dinosaur Discoveries	Grades 2-3	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 with OMSI's Paleontology lab educators and embark on other prehistoric explorations.	7/5/23 7/17/23 7/24/23 8/7/23 8/14/23
Explosive Volcanoes!	Grades 2-3	Ever seen a volcano erupt? Now is your chance! Dig into this geologic adventure as you discover a dynamic world right under our feet. You will even visit the Rice Northwest Museum of Rocks and Minerals to discover more about surprising and exciting geology. You're sure to take home at least one geologic treasure of your own.	7/10/23 7/31/23 8/14/23 8/21/23
Grossed Out	Grades 2-3	Do you want to be grossed out? Come join a yuck-filled week where we will explore the science behind burping, grow your own mold, form and pick model scabs, and even dissect a real cow eyeball! Figure out whose poo is whose or how germs spread in this superbly disgusting class. Don't forget to take home your ickiest creations to enjoy all year long!	6/26/23 7/17/23 7/24/23 7/31/23 8/28/23
LEGO Building Blocks	Grades 2-3	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 will look at the world and LEGO differently than ever before.	6/26/23 7/10/23 7/31/23 8/14/23 8/28/23
LEGO SPIKE Robotics (NEW)	Grades 2-3	Get started with robotics early using the newest LEGO Robotics platform! With the most advanced LEGO Education SPIKE Essential 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!	6/19/23 7/5/23 7/24/23 8/7/23 8/21/23 8/28/23
Grades 4-5			
Day Camp Title	Grade Level	Description	Start Date
Animation 4-5	Grades 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 will 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.	6/26/23 7/17/23 7/24/23 8/7/23 8/14/23 8/28/23
Cosmic Explorers	Grades 4-5	Learn about and help design the future of human solar system exploration! Build model landers to safely visit other planets, discover how gravity assists work for spacecraft, and even launch rockets. This class will include a potential field trip to Evergreen Aviation Museum or other area destination.	7/17/23 7/31/23
Digital Bootcamp 4-5	Grades 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 will understand the languages and codes that link computers all over the world, and build the web design skills you need to tell your stories!	6/26/23 7/31/23 8/28/23

Drone Pilot Training 4-5	Grades 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. This class will include a potential field trip Evergreen Aviation Museum or other area destination to learn more about the history and future of drone flight.	6/26/23 7/10/23 8/21/23
Games Galore 4-5	Grades 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.	7/5/23 7/17/23 8/14/23
Junior Veterinarian	Grades 4-5	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.	6/19/23 7/10/23 7/24/23 8/7/23
LEGO Machines	Grades 4-5	Ready? Set? LEGO!! Use a lever, inclined plane, wheel and axle, and pulley to construct a variety of exciting machines. Design and create a catapult while you learn the physical forces at work in simple and complex machines. Put your skills together to build and race LEGO cars as you endeavor to win the day!	7/5/23 7/17/23 8/7/23 8/21/23
LEGO Robotics 4-5	Grades 4-5	Build essential STEM skills with LEGO Robotics! The LEGO Mindstorms Robot Inventor is the newest generation in the acclaimed Mindstorms series. With a new programming interface and expanded motor and sensor capabilities, you will not want to miss this class. Learn the basics of coding and the essentials of robotic engineering while you program and play with the latest kit from LEGO robotics!	7/10/23 7/24/23
Natural Disasters Unlocked	Grades 4-5	Somewhere the ground is rolling and a mountain is shaking and 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 and visit the Rice Northwest Museum of Rocks and Minerals to learn more about the exciting geology in our region.	7/10/23 7/24/23 8/14/23
Picking Up STEAM	Grades 4-5	Are you an artist who loves science? Or a scientist who loves art? Learn about the world of STEAM – science, technology, engineering, art, and math! Discover the connection between science and art; then use your creativity to make artwork based on your scientific discoveries. You will learn about the science of color and perception, the beauty of mathematics in fractals, engineer a scribbling art robot, and even discover the impact that artist renderings have had on scientific understanding throughout human history.	6/26/23 7/31/23 8/7/23
Science of Soccer	Grades 4-5	Ever wonder about the science behind what you see on the pitch? 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 as you will be using your mind to dissect and better understand soccer.	7/5/23 8/21/23
Train Engineer 4-5	Grades 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. This class is hosted in collaboration with the Oregon Rail Heritage Center.	7/10/23 7/31/23 8/14/23
Grades 4-8			
Day Camp Title	Grade Level	Description	Start Date
Animation II	Grades 4-8	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 will 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.	7/5/23 7/31/23 8/21/23
Drone Pilot Training (Girls Only)	Grades 4-8	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. This class will include a potential field trip Evergreen Aviation Museum or other area destination to learn more about the history and future of drone flight.	7/24/23
Games Galore (Girls Only)	Grades 4-8	Calling all girls! 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. Note: This class is for students in grades 4-8.	6/19/23

Games Galore II	Grades 4-8	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 will 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.	7/24/23 8/28/23
LEGO Robotics (Girls-Only)	Grades 4-8	Calling all girls! Build essential STEM skills with LEGO Robotics! The LEGO Mindstorms Robot Inventor is the newest generation in the acclaimed Mindstorms series. With a new programming interface and expanded motor and sensor capabilities, you will not want to miss this class. Learn the basics of coding and the essentials of robotic engineering while you program and play with the latest kit from LEGO robotics! Note: This class is for students in grades 4-8.	7/5/23
LEGO Robotics II	Grades 4-8	Take your STEM skills to the next level with LEGO Robotics! The LEGO Mindstorms Robot Inventor is the newest generation in the acclaimed Mindstorms series. With a new programming interface and expanded motor and sensor capabilities, you will not want to miss this class. Go beyond the basics of coding and the essentials of robotic engineering while you dive deeper programming and playing with the latest kit from LEGO robotics! Note: This advanced class is for students in grades 4-8 who have completed an intro to LEGO Robotics class.	8/7/23
LEGO Robotics II (Girls-Only)	Grades 4-8	Calling all girls! Take your STEM skills to the next level with LEGO Robotics! The LEGO Mindstorms Robot Inventor is the newest generation in the acclaimed Mindstorms series. With a new programming interface and expanded motor and sensor capabilities, you will not want to miss this class. Go beyond the basics of coding and the essentials of robotic engineering while you dive deeper programming and playing with the latest kit from LEGO robotics! Note: This advanced class is for students in grades 4-8 who have completed an intro to LEGO Robotics class.	8/14/23
Grades 6-8			
Day Camp Title	Grade Level	Description	Start Date
Animation 6-8	Grades 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 will 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.	6/19/23 7/10/23
Digital Bootcamp 6-8	Grades 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 will understand the languages and codes that link computers all over the world, and build the web design skills you need to tell your stories!	7/5/23 8/14/23
Drone Pilot Training 6-8	Grades 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. This class will include a potential field trip Evergreen Aviation Museum or other area destination to learn more about the history and future of drone flight.	7/17/23 7/31/23
FSI: Forensic Science Investigator	Grades 6-8	Discover the science of solving crime! Learn how to lift fingerprints, examine and extract DNA, and use a variety of other forensic techniques to find out what it takes to solve some of the most mind-boggling crimes. You will even visit with a real police department as you investigate the world of modern forensics.	6/19/23 7/5/23 8/7/23
Games Galore 6-8	Grades 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.	6/26/23 7/10/23 8/7/23 8/21/23
LEGO Architecture & Cities	Grades 6-8	What does it take to build the world's strongest city? We're using your favorite colorful bricks 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 will team up to build the world's strongest city.	7/24/23
LEGO Robotics 6-8	Grades 6-8	Build essential STEM skills with LEGO Robotics! The LEGO Mindstorms Robot Inventor is the newest generation in the acclaimed Mindstorms series. With a new programming interface and expanded motor and sensor capabilities, you will not want to miss this class. Learn the basics of coding and the essentials of robotic engineering while you program and play with the latest kit from LEGO robotics!	6/26/23 7/31/23
Tabletop Game Designer	Grades 6-8	Do you love board and card games?! Leave your screens and video games behind as you jump into the world of tabletop games! Explore ancient games from cultures across the world to figure out how they influence games we play today. Learn to balance probability, strategy, and luck, to create and playtest your own original game with fellow gamers. Make your own custom resin dice, game pieces, and boards with our games workshop; then bring your family and friends together to play at home!	7/24/23 8/14/23

Train Engineer 6-8	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. This class is hosted in collaboration with the Oregon Rail Heritage Center.	6/26/23
Grades 6-9			
Day Camp Title	Grade Level	Description	Start Date
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 programing. 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.	7/17/23 8/7/23 8/21/23
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 programing. 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.	7/10/23 8/28/23
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.	8/14/23