

PROGRAM OFFERINGS

Program Name	Science Concepts	Description	Grades	Virtual	On-site	Traveling	Notes
Animal Adaptations	Animal adaptations, Biological evolution, Examining structure and function	Do you and a whale eat the same food? Could you share the same home? Discover which characteristics and behaviors help animals move, hunt and survive. Examine biofacts like bones, skulls and pelts, then meet a live EcoTarium ambassador animal, and explore the amazing ways it's adapted to the ecosystem.	K-8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Build Your World	Forces, motion and stability, Engineering design process, Observing and analyzing data	Think you need concrete and steel to build bridges? Think again! Using the engineering design process, students explore the forces of motion and work in small groups to plan, test and build a way across a "river" using a simple material. Will it hold up to an earthquake? What about a tornado? Student engineers investigate and evaluate.	K-3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Invisible Forces: Electricity & Magnetism	Energy transfer, Cause and effect relationships of electric and magnetic forces	What's the foundation of hair-raising science? The answer may shock you! Students get hands-on with electricity and magnetism through interactive demos that reveal the secrets of conductivity, polarity, and the powers of attraction.	3-8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Pond Ecosystems	Characteristics of living things, Pond as a habitat, Life Cycles of Animals, Classification of organisms, Energy Transfer in Food Web, Structure and Function of Organisms, Ecosystem Dynamics	Ducks and fish are easy to spot, but have you considered the billions of microscopic organisms that keep a pond ecosystem healthy? Students will walk down to our pond to collect samples of plants, animals, and protists, then examine them under a powerful microscope to explore their ecological relationships.	K-8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Available April - November
Rocket Launch!	Energy transfer, forces and motion, engineering design	Getting to space...it's just rocket science! Explore the laws of motion, and learn which parts of a rocket are built to propel, streamline, and stabilize. Design and test your own simple spacecraft, then launch it skyward or toward a target. Does it hit the mark? Redesign and improve to get to the moon.	2-8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Requires outdoor space or gymnasium with high ceilings
Understanding Weather	Weather vs. climate, Earth system science, Matter and its interactions	Should you wear your sandals or snow boots? How do you decide? Why does weather change, and how can we predict it? Through fun and replicable demos and models, discover how temperature and pressure combine to create everything from wind and rain to hurricanes and tornadoes. As our climate changes, learn what factors are at play.	2-8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Involves educator-controlled open flame
Animal Encounter: Red Fox	Animal adaptations, Biological evolution, Examining structure and function	This program features our resident fox, Socks. Animal keepers will highlight why wild animals do not make good pets and what you should do if you ever find an injured or baby animal in your own backyard. You will learn about the natural history of red foxes and the special adaptations they possess which make them suitable for the New England climate. You will also watch a positive reinforcement training session with "Socks" and learn about how training helps animals under human care participate in their own medical care!	K-12	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Animal Encounter: North American River Otter	Animal adaptations, Biological evolution, Examining structure and function	This program features our two resident North American river otters, Slydell and Daisy. Animal keepers will highlight the threats that all 13 species of otters are facing and how these threats are leading to endangerment and extinction of otters around the globe. You will learn about the incredible adaptations of river otters and why they are an environmental indicator species. You will get to watch a positive reinforcement training session with both otters and learn about what river otters eat in their natural environment and here at the EcoTarium!	K-12	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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Animal Encounter: Mountain Lion	Animal adaptations, Biological evolution, Examining structure and function	This program features our two resident mountain lion siblings, Salton and Freyja. Animal keepers will tell the story of how Salton and Freyja came to reside at the EcoTarium. You will learn about the former expansive range of mountain lions and why they are no longer found in New England today. You will learn about the current threats that mountain lions are facing daily but how their ability to thrive in different habitats have helped them to adapt and survive. You will get to watch a positive reinforcement training session and learn about what it takes to care for our sibling mountain lions!	K-12	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Grand Tour of the Solar System	Earth's place in the universe; Patterns of movement of celestial bodies	Earth may be whipping through space, but we're not the only ones traveling around the sun! Explore all of the rocky, gaseous, stormy, and cratered worlds within our solar system. Land on Mars, discover Jupiter's icy moons, and even pay Pluto a visit. Buckle up, and prepare for a journey of over ten billion miles!	1-6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Stars and Constellations	Earth's place in the universe; Patterns of movement of celestial bodies	Look up on a clear night, and you're able to see almost five thousand stars without a telescope. But what is a star? How are they made? And do they really make pictures in the sky? Identify seasonal constellations, then rocket out of our solar system to explore stellar clusters and nebulae light years away!	1-6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
The Sky Tonight	Earth's place in the universe; Patterns of movement of celestial bodies	What's that in the sky? It's not a bird or a plane, but it might be a planet, a moon, a meteor or a star! Discover what to look for when the sun goes down. From constellations and moon phases to planetary conjunctions and more, learn about the astronomical events happening right now.	2-6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	