

Activity Descriptions	
A Drop of Pond Water (grades 4-8)	Learn and use an optical microscope as you explore the micro inhabitants from one of the park's ponds.
Bat and Moth (grades K-4)	Play a game to understand predator-prey relationships and dispel myths about bats and other animals.
Build Your Own Rocket (grades 2-4)	Rockets get satellites into earth orbit! Learn the engineering process as you design, test, evaluate, and improve the construction of a straw rocket.
Build Your Own Satellite Sensor (grades 4-8)	This is an extension activity to GOES-POES. You will learn about the technology of satellite instrumentation and then design a satellite sensor for a specified mission.
Cloud Fun (grades K-4)	Identify cumulus clouds and observe the weather conditions on days that you see them. This activity goes along with the Observation Hike.
Eaters and Eaten (grades K-4)	Understand predator-prey relationships by gathering food items.
Exploring Earth in Virtual Reality (grades 4-12)	Investigate satellite data and remote sensing through virtual reality from an earth orbiting space station.
GOES-POES (grades 4-8)	Using a large 5 foot inflatable Earth Globe, students view the Earth from the eyes of a satellite.
How Many Bears (grades 3-6)	Play the role of a bear in the forest as you compete for food and survival.
Landsat Image Analysis (grades 6-12)	Use the tools of a remote sensing scientist to explore seasonal change and urban development using satellites. Measure and see how math is used in image analysis.
Make Your Own Watershed (grades 3-8)	Make your own watershed with markers and paper. Use your model to define a watershed and identify its characteristics.
Map Game Practice (grades 3-8)	Learn and use map reading skills to find markers around the Palmyra Cove Environmental Discovery building.
Mapping Data through GIS (grades 9-12)	Learn about data analysis through Geographical Informations Systems (GIS). This is a hands-on lab where you collect outdoor data, import, and build a map.
Observation Hike (grades K-12)	Take a guided hike across 250 acres of woodlands and wetlands. Observe a variety of the park's habitats, identify specimens, and even discover organisms in rotting logs.
Seining the Delaware (grades K-8)	Collect, observe, and identify aquatic animals in the Delaware River.
STARLAB - Earth to Space (grades K-8)	From inside an inflatable planetarium (STARLAB), students learn about the night sky, celestial wonders, reasons for the seasons and earth orbiting satellites.
The Colors of the Season (grades K-4)	Explore the colors of the season fromwithin the park. This activity goes along with the Observation Hike.
Tree Cookies (grades K-6)	Explore climate using tree rings and simulated tree cores.
Water Wonders (grades K-4)	Discover and classify the varied species of macroinvertebrates from one of the park's ponds.

Alignment to the Next Generation Science Standards

	Disciplinary Core Ideas												S & E Practices								Crosscutting Concepts						
	LS				ESS			PS				E	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7
	1	2	3	4	1	2	3	1	2	3	4	1															
A Drop of Pond Water	✓	✓		✓											✓	✓		✓					✓			✓	
Bat and Moth	✓	✓		✓																				✓			
Build Your Own Rocket									✓				✓			✓	✓						✓		✓		
Build Your Own Satellite Sensor						✓					✓	✓											✓				
Cloud Fun						✓									✓		✓		✓								
Eaters and Eaten	✓	✓		✓																			✓				
Exploring Earth in Virtual Reality						✓					✓								✓				✓	✓			
GOES-POES						✓			✓		✓								✓				✓				
How Many Bears	✓	✓		✓																			✓		✓		
Landsat Image Analysis						✓					✓	✓			✓	✓	✓						✓	✓			
Make Your Own Watershed						✓	✓		✓				✓							✓			✓				
Map Game Practice																	✓										
Mapping Data through GIS									✓				✓	✓	✓	✓			✓			✓	✓				
Observation Hike	✓	✓	✓	✓		✓	✓			✓									✓					✓	✓	✓	
Seining the Delaware	✓			✓			✓		✓					✓	✓									✓	✓		
STARLAB - Earth to Space						✓	✓			✓	✓											✓		✓			
The Colors of the Season		✓													✓				✓								
Tree Cookies	✓	✓				✓							✓						✓				✓		✓		
Water Wonders	✓	✓					✓								✓												