

Lake Metroparks

STEM/STEAM Integrated Programs

2021-2022

STEM stands for Science, Technology, Engineering, and Mathematics. [STEM Education](#) is driven by problem-solving, discovery, exploratory learning, and requires students to actively engage a situation in order to find its solution. The **STEAM** designation also includes the Arts.

STEM Integrated programs (55 Programs) STEAM Integrated programs (4)

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| <ul style="list-style-type: none"> ➤ All Star Lab programs <ul style="list-style-type: none"> ○ Starlight Express ○ Constellation Investigation ○ Sun, Moon, & Stars ○ Plate Tectonics ○ Orbit Odyssey ○ Biodiversity of the Night ○ Solar and Lunar Cycles ➤ A Big Splash: The Wonders of Water ➤ Advanced Linking Up: From Owl Pellets to Food Webs ➤ Animal Architects ➤ Animals Through Time ➤ Apollo Project ➤ A Spider Named Charlotte (STEAM) ➤ Biodiversity Bonanza ➤ Biomimicry of Ecosystems ➤ Biospheres ➤ Biotech Institute (3 Programs) ➤ Bottle Rocket Blast ➤ Build a Beak ➤ Chair Factory Falls: A Link To the Past ➤ Changes In Motion ➤ Wildlife 911 ➤ Decomposition ➤ Discover Maple Syrup ➤ Ecosystems & Energy | <ul style="list-style-type: none"> ➤ Energy Through the Farm ➤ Environmental & Climatic Changes ➤ Erosion and Deposition ➤ Fiber Arts From the Farm (STEAM) ➤ Forces In Motion ➤ GPS Know Your Location ➤ GPS Safari ➤ Grist For the Meal ➤ Ice Cream ➤ Interactions In Ecosystems ➤ Linking Up: From Owl Pellets to Food Webs ➤ Little Red Hen ➤ Lake Effect ➤ Measurement: Mass To Volume ➤ Mission To Mars ➤ One Great Lake ➤ Operation Worm Watch ➤ Owls: Engineered for Stealth ➤ Owls: The Night Shift ➤ Picky Eaters, Sticky Seeds (STEAM) ➤ Pizza Farm ➤ Snowshoe Climatology ➤ Soap Bubble Chemistry ➤ Sounds Of Nature (STEAM) |
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- Stream Study
- Studies In Biodiversity
- The Chemistry of Cheese Making
- Snowbelt Climatology

- Talking Bones
- The Climate For Snowshoes
- Weather Explorers
- Wee Weatherwatchers

Grade Band	Program Name		
		2	Operation Worm Watch
All Grades	Star Lab programs	2-4	A Spider Named Charlotte
		3	Studies In Biodiversity
All Grades	Constellation Investigation	3	Measurement: Mass to Volume
All Grades	Discover Maple Syrup	3-5	Grist for the Meal
		3-5	Ice Cream
All Grades	Biodiversity Bonanza	3-5	Chemistry of Cheese Making
All Grades	Pizza Farm	3-8	Apollo Encounter
		3-12	Alien Invaders: Invasive Species
PK-K	Wee Weatherwatchers		
PK-1	Starlight Express	4	Spiders
PK-2	Little Red Hen	4	Erosion & Deposition
K	Weather Explorers	4	Chair Factory Falls: A Link To the Past
K-2	Sun, Moon, & Stars		
K-2	Soap Bubble Chemistry		
K-3	Picky Eaters, Sticky Seeds	4	Environmental & Climatic Changes
K-12	Apollo Project: Bald Eagle		
K-12	Adopt Apollo	3, 4, 5	Wildlife 911
1	Build a Beak	4-5	Lake Effects
1-2	A Big Splash: The Wonders of Water	4-5	Orbit Odyssey
		4-5	Linking Up: From Owl Pellets to Food Webs
1-2	Changes In Motion	4-6	Sounds Of Nature
2	Biospheres	4-8	Fiber Arts From the Farm
2	Mission to Mars	5	Biomimicry Of Ecosystems

5	Talking Bones
5	Interactions In Ecosystems
5	Decomposition In Action
5	Owls: The Night Shift
5-6	Forces & Motion
6	Animal Architects
6-7	One Great Lake
6-8	Advanced Linking Up: From Owl Pellets to Food Webs
6-8	Bottle Rocket Blast
6-8	Decomposition
6-8	Owls: Engineered for Stealth
6-8	The Climate For Snowshoes
6-8	GPS Safari
6-8	Plate Tectonics
6-12	Biotech Institute (3 Programs)
7	Ecosystems & Energy
7	Energy Through the Farm
7	Solar & Lunar Cycles
7-12	Stream Study
8	Animals Through Time
8	Physics of Flight
9-12	GPS Know Your Location
9-12	Snowshoe Climatology