

# CONNECTICUT SCIENCE CENTER

## Grade Curriculum Connections

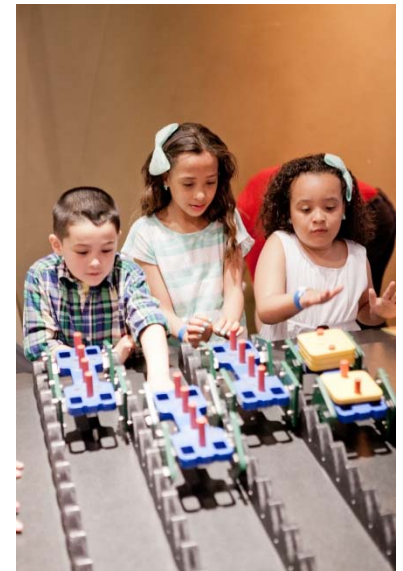
### Grades 6-8 (MA)



**NEW! Bones of the Body**



**Rube Goldberg Machines**



**Square Car Race**

### **Exhibit Connections:**

All of our 165+ hands-on exhibits are educational and fun for any age. This is a small selection of permanent exhibits that tie directly into the 6<sup>th</sup> – 8<sup>th</sup> grade curriculum.

### **Earth and Space Sciences, Grades 6–8**

<b>Curriculum Connection</b>	<b>Gallery Name</b>	<b>Floor</b>	<b>Exhibit Name</b>	<b>Description</b>
6-8 4 Heat Transfer in the Earth System	Planet Earth	5N	A Year's Worth of Weather	Look at the weather of the past year.
6-8 4 Heat	Planet Earth	6S	Hurricane Force	Experience the power of a

Transfer in the Earth System				hurricane.
	Planet Earth	6S	WFSB Weather Report	Generate your own weather report.
	Planet Earth	6S	Weather Station - Clouds	Observe how different clouds can be.
	Exploring Space	5N	Earth Observatory	Look at global weather patterns.
	Energy City	6S	Energy Efficient Windows	The angle of sunlight changes depending on the season
6-8 5-7 Earth's History	Exploring Space	5N	Earth Observatory	Identify where tectonic plates are, volcanoes and earthquakes. See how Earth has changed
	Planet Earth	6S	Connecticut Rocks - Rock Cycle	Rocks can be used to determine how landforms were created
	Planet Earth	6S	Plate Tectonics	See how plate tectonics has changed the world
	Planet Earth	6S	Driving by Mountains of Data	Observe that landforms are composed of different rocks and their formation can be determined from them.
	Planet Earth	6S	Read a Rock's Headlines	Identify rock features that occurred due to glaciers or tectonics
	Planet Earth	6S	Read a Rock's Inside Story by the Slice	Look at mineral crystals to observe how tectonics change a rocks' crystals
	Planet Earth	6S	Geology and Art	See the connection between art and geology
	6-8 10 The Earth in the Solar System	Exploring Space	5N	Explore the Red Planet
Exploring Space		5N	Our Eyes on Mars, "The Search for Water"	Identify landforms on Mars that may have been created from water.

## Life Science, Grades 6–8

6-8 5-6 Systems in Living Things	Sports Lab	5S	Cardio View	View Simulated visualization of your heart and lungs
	Picture of Health	5S	Visual Analysis	The Doctor Is In - Diagnose sports injuries
	Picture of Health	5S	Health Lab	Investigate different organs through a 3D simulation
	Picture of Health	5S	NEW! Bones of the Body	Assemble a skeleton, and learn more about how the bones fit together and work to help the body function.
	Picture of Health	5S	Joints	Investigate different joints of the body
6-8 13, 14 Living Things and Their Environment	River of Life	6S	Fish of Connecticut	Observe an ecosystem.
	River of Life	6S	Animal Tanks	What is missing from this ecosystem?

## Physical Sciences, Grades 6-8

6-8 11 Motion of Objects	Light and Sound	4N	Freeze Frame	The cushy ball's motion can be easily tracked
	Invention Dimension	5N	Rube Goldberg machines	The obstacles in the Rube Goldberg machines affect the motion of the balls, causing them to speed up, slow down, or change direction
	Forces in Motion	5N	Imagination Playground	The ball in the track will tend to move straight unless the track acts to redirect the ball's motion
	Forces in Motion	4N	Square Wheels	The force of gravity can be strong enough to move the square-wheeled vehicles down the ramp

6-8 11 Motion of Objects	Invention Dimension	5N	Lego Ramp	Lego vehicles that go down the ramp will continue to go straight until friction slows them down
	Sports Lab	5S	Helmet Crash Test	The dummy wearing the helmet will bounce back from the hammer after it impacts the helmet
	Picture of Health	5S	Be a Biomechanic	How fast the bean bag accelerates can depend on the strength of the throw
	Exploring Space	5	Newton's Air Hockey	Explore Newton's Law and how it applies to space.
6-8 14-16 Heat Energy	4th Floor Bridge	4 Bridge	Hot Air balloon	See how hot air balloons work with air.

## **Special Traveling Exhibit (Included with General Admission)**

### *Alien Worlds and Androids: Fall 2017*

*It may be an out of this world experience, but you will leave feeling like you took a fantastic journey through space and time. Alien Worlds and Androids brings guests face-to-face with worlds far beyond their own, and introduces the technology that takes them there.*

### *Bionic Me: Spring 2018*

*Test your own limits as you run, sense, and navigate. Explore how technology can enhance your abilities and integrate with your body. Imagine your future: what choices will you make and how might they change your life?*

## **Live Gallery Science Programing (Included with General Admission)**

*These hands-on activities supplement the exhibits in our galleries.*



### **3D Movies:**

- *NEW! Dream Big*
- *NEW! Extreme Weather*
- *3D Sun*
- *Galapagos*
- *Journey to Space*
- *Hidden Universe*
- *Last Reef*
- *Mysteries of the Unseen World*
- *Tornado Alley*
- *Wild Ocean*

### **Stage Shows:**

*45 minute interactive demonstrations with a STEM Educator.*

#### **NEW! Global Soundscapes ( Grades 4-8)**

Immerse yourself in the amazing sounds of our planet! Through giant screen images, surround sound, and live presentation, **Global Soundscapes** takes you on an ear-opening journey into the science of sound and the emerging field of soundscape ecology. Embark on a mission to investigate the dramatic soundscapes of Costa Rica's rainforests, Hawaii's coral reefs, and Mongolia's vast grasslands. Learn how animals use sounds to survive and communicate in lush, but threatened environments. Discover what soundscapes tell us about the health of our planet. With **Global Soundscapes'** unique format—combining giant screen images, surround sound, and live presentation—you'll hear the Earth in a whole new way!

#### **Forces and Motion (Grades 4–8)**

This unique program format will engage your students in physics and introduce them to Newton's Laws. The show combines live demonstrations with video and other imagery projected on the theater's 30' x 40' screen.

### **Discovery Center Lab Programs Grades 6-8:**

*45-minute classroom program run by our very own STEM Educators. The following Discovery Center Lab Programs have been adjusted to fit Massachusetts Science Curriculum Standards.*



- **H<sub>2</sub>O No!**
- **Cloud Sourced**
- **I know My Body**
- **Breaking Up Is Hard To Do**
- **Roller Coasters**
- **NEW! Solving the Solstice**
- **Energy Through Time & Space (60 Minutes)**
- **Be a Molecular Biologist (90 Minutes)**



**NEW! Butterfly Encounter – Wild Wings, 20 Minute Program.**

*Join hundreds of butterflies at the most glorious stage of their fascinating lifecycle in a tropical greenhouse- an all new, must-see destination within the Connecticut Science Center.*



**For more  
information:**

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