

CONNECTICUT SCIENCE CENTER

8th Grade Curriculum Connections (CT)



Rube Goldberg Machines



Square Wheel Cars



Helmet Crash Test

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 8th grade curriculum.

Curriculum Connection	Gallery Name	Floor	Exhibit Name	Description
8.1	Sight 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 Wheel Cars	The force of gravity can be strong enough to move the square-wheeled vehicles down the ramp

8.1	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	Biomechanics	How fast the bean bag accelerates can depend on the strength of the throw
	Exploring Space	5N	Newton's Air Hockey	Explore Newton's Law and how it applies to space.
8.3	Energy City	6S	Energy Efficient Windows	The angle of sunlight changes depending on the season



New for 2017! Science Alley



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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. These lessons are inquiry based and align with the Connecticut State Framework or the Next Generation Science Standards.



- H₂Oh 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:

Visit: www.ctsciencecenter.org/fieldtrips

Book: www.ctsciencecenter.org/booknow

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