



2021-2022 In-Museum Offerings

Grade Level	Title	Description	SOL
Chemistry (K-2nd)	Acid Rain	Students will conduct a simple experiment to model the effects of acid rain on both living and non-living items.	K.3; 1.4; 1.7c; 1.8; 2.6; 2.7
Chemistry (3rd-5th)	Red Cabbage Chemistry	Students will use red cabbage to test the ph levels of a number of household liquids.	5.7
Geology (3rd-5th)	Soapy Stress	Students will experiment with the three types of material stress related to rocks: tensional, compressional and shear. Students will also learn how rocks weather due to chemical weathering, physical weathering and biological weathering.	3.2; 4.7; 5.8
Geology (K-2nd)	Engineering for the Three Little Pigs	Students will test out three building materials to discuss the effects of weathering a force on rocks, focus on engineering.	K.11; 1.3; 2.3; 2.7
Biology/ Engineering (3rd-5th)	Inspired by Nature	Students will learn about biomimicry and how scientists take notes from nature to solve real world problems. Students will also use the engineering process to reverse engineer the flower design.	3.4; 4.3
Biology (K-2nd)	Belly Belches	Students will learn how burps occur! Students will also learn about how different different bacteria work together to help us digest our foods.	1.5; 2.2; 2.5

Astronomy (3rd-5th)	Design, Build and Test	Students will journey through the engineering process to design, build and test their space crafts.	3.2; 3.4; 5.2
Astronomy (K-2nd)	Moonquakes	Students will experiment and learn how seismic activity happens on both our Earth and the moon.	K.2; K.10; 1.2

Grade Level	Title	Description	SOL
Middle School	Magic Moving Ball	Students will experiment with Bernoulli's principle to better understand how air pressure behaves as well as how engineers manipulate air pressure to perfect the designs of airplanes, blimps and even automobiles.	PH.2
Middle School	Under Pressure	Why are dams and lock systems built the way they are? Students will learn about how water pressure changes as the depth of the water increases- and why.	PS. 8
Middle School	Physics Tug of War	Students will do a deep dive into Newton's 2nd law of motion and discover why a heavy object requires more force to move than a smaller object.	PH.3; PS.8
Middle School	Conductivity of Gatorade	Students will use gatorade (and other salt/water solutions) to learn about electrical potential, current and resistance.	PH.8; PS.9