

Imagine It. Make It.

For All Grades:

Mother's Day Pinch Pots – (The Clay Adventure by Trần Lê Sơn Ý)
Students use gray modeling clay to create customized pinch pots.



For Grades K-1:

Do You Wanna Build a Snowman? – Design and build a snowman under certain criteria and constraints.

2D/3D shape building– Build the alphabet/shapes using the provided materials and task cards.

Very Good Hats – (by Emma Straub) Design and build a hat that solves a problem (ex: protection from sun, rain, injury, etc.)

Floating Pots of Gold - Using a list of supplies, STEM groups must create a floating pot of gold that is designed to carry as much gold (pennies) as possible!

The Great Eggscape –(companion activity to The Great Eggscape by Jory John.) Your egg wants to escape! Create a paper plate magnet

maze to help it get from the beginning to the end of your maze.
Explores properties of magnets.

Make Some Music – Explore sound by making Easter egg maracas, rain sticks, and paper-plate tambourines.

For Grade 2-3:

Build an Igloo – Use marshmallows and toothpicks to design and build an igloo for the Eskimos!

Sled and Slope - Design and build a sled for 2 riders and a ramp that allows for it to travel the greatest distance.

Rainbow Run - Design a Rainbow Run that showcases both kinetic and potential energy at use. The design must have a single large curve, in the shape of a rainbow.

Rashchenka's Eggs – After reading Patricia Polacco's story, students will create their own eggs by learning about chromatography as an art technique.

Nice Nest - In this challenging spring activity, students must work against a criteria & constraints list and create a nest designed for maximum capacity.

Spectroscopes - Students will explore the science of light, refraction and reflection with this homemade spectroscope - an instrument used to split light into different wavelengths, which we see as different colors of the rainbow.

For Grades 4-5:

Fake Snow Lab – Students will conduct 3 tests with 4 different artificial snow recipes to determine which one is the best.

Frozen Fortress - Design and build a snowball fortress wall with the greatest possible area that will withstand a snowball attack.

Cupid's Arrow - The goal of this balloon physics challenge is to create an arrow out of a balloon. Then, using Newton's third law of motion, have the arrow shoot along a string into a heart.

Spectroscopes - Students will explore the science of light, refraction and reflection with this homemade spectroscope - an instrument used to split light into different wavelengths, which we see as different colors of the rainbow.

Escape from Planet Emoji – Escape from Planet Emoji with your team by completing the ELA lockbox challenges. A great review of English/Language Arts concepts (story elements, summarizing, main idea, figurative language, fact/opinion).

Escape from Emoji Island – Escape from being stranded on Emoji Island by completing the Math Lockbox challenges. A great review of Math concepts (multiplication, division, decimals, fractions, geometry, problem solving).

Grades 6 and up:

Fake Snow Lab – Students will conduct 3 tests with 4 different artificial snow recipes to determine which one is the best.

Spring 2023

Frozen Fortress - Design and build a snowball fortress wall with the greatest possible area that will withstand a snowball attack.

WWII Museum - Research, design, and create an artifact to be displayed in a historical museum.