

# **Earth Day Activities:**

- **Hurricane Mapping**

In this activity, kids track the paths of two hurricanes as an entry point to understanding Geographic Information Systems (GIS).

Topic: GIS Mapping  
hour

Grades: 6-8

Estimated Time: 1

- **Bean in a Bottle**

Through this activity, kids will learn about the life cycle of a plant and discover what their plant needs to survive.

Topic: Agriscience  
hour

Grades: 3 – 5

Estimated Time: 1

- **Building Bridges**

This activity teaches kids about the engineering design process and the mechanics of building bridges while designing their own bridge!

Topic: Engineering  
20 minutes

Grades: 6 – 12

Estimated Time:

- **Can-Can Robot**

This experiment introduces mechanical engineering as kids build a robot and learn how parts interact when building a machine!

Topic: Engineering  
minutes

Grades: 3 – 5

Estimated Time: 45

- **Crazy Kites**

This activity teaches kids engineering design as they build and test kites to learn how lift and air pressure work together to make things fly!

Topic: Aeronautics, Engineering

Grades: 3 – 8

Estimated Time: 30

minutes

- **Fizzy Foam Fun**

This experiment teaches kids about chemical reactions and catalysts - materials that speeds up reactions, but don't react themselves.

Topic: Chemistry  
minutes

Grades: Pre-K – 2

Estimated Time: 20

- **Fruit Batteries**

This activity teaches kids about the key parts that make a battery work and the chemical reaction that makes it possible! Requires wires & alligator clips

Topic: Chemistry, Engineering, Electricity  
Time: 25 minutes

Grades: Pre-K – 5

Estimated

- **How Can We Use Wind to Lift a Load?**

This experiment introduces youth to engineering and wind power as they build and use a windmill to power a pulley system.

Topic: Engineering  
minutes

Grades: Pre-K – 2

Estimated Time: 30

- **Parachute Away**

In this activity kids harness the power of physics and air resistance to develop different parachute designs and discover a safe way to deliver an egg to the ground.

Topic: Physics  
minutes

Grades: 3 – 5

Estimated Time: 30

- **Rubber Band Cars**

In this activity, kids will build cars from items found at home to learn about the engineering design process and physics!

Topic: Engineering, Physics  
minutes

Grades: 3 – 8

Estimated Time: 45

- **Fact or Fiction**

In this exercise, parents will teach children how to use the internet (via computer, phone or tablet) to research a subject of interest online, and gauge whether the information they find is trustworthy or not using the topic 'climate change'.

Topic: Tech Literacy & Environment  
hour

Grades: 4-8

Estimated Time: 1