STEM CHALLENGE
Apple Boat Challenge

Due Date: 10/6/2017

Have Fun: First test to see what happens to an apple when you place it in water. So, now that you know what happens, use what you have learned to build an apple boat. Will different size apple pieces float as well as others? Make a sail using construction paper and a toothpick. Make observations about your boat.

Challenge: What is the best way to create an apple boat? How does the size of the apple slice and the size of the sail impact how your boat floats?

Procedure: Create an apple boat!
- Decide what size apple slice will make the best boat.
- Use construction paper and scissors to design a sail for your boat. Attach the sail to a toothpick with tape. Carefully poke the toothpick into your apple slice.
- Gently place your apple boat into a basin of water. Observe what happens.

Materials:
- Apples (An adult will need to use a knife to make slices.)
- Construction paper, toothpick, tape and scissors to create a sail.
- Basin of water (approximately 10 cm deep with water)

Submission:
- Draw or take a picture of your boat.
- Answer the challenge questions.
- Also tell what changes you would make to your design and why.
- Please make sure that your submission has your name, school district, grade level and return address included.
- Please submit your drawing/pictures and answer to the challenge question to us by mail or by GST Pony to:

  STEM Resource Center, 3153 Lake Road, Horseheads, NY 14845