



Cincinnati
Museum
Center

Teacher's Pre- and Post-Program Visit Guide

Program	Will it Float?
Grade Level	Pre K - 1
Time	30 minutes
Location	Duke Energy Children's Museum Classrooms

Program Objectives

- Students will be able to understand that air and weight (mass) will determine an object's buoyancy.
- Students will learn what causes some things to float and others to sink and predict outcomes based on those principles.
- Students will discover if water is heavy or light.

Program Description

What keeps a boat afloat? Is water heavy or light? Does air have anything to do with floating? Experiment with the basic principles of water as you test a variety of objects that either sink or float.

Major Vocabulary and concepts

float	sink	buoyant
predict	light	heavy
same	different	

Suggested things to do in your classroom before the program

- Scale introduction - Use a platform scale to weigh objects in your room. Some weigh more than others. Let the students predict which objects will weigh more.
- Introduce boats into the classroom. Place boats in your water table, draw pictures and add boat stories to story time and to your reading corner.

Suggested things to do after the program

- Visit the *Water Works* exhibit in the Duke Energy Children's Museum.
- Reinforce concepts of sinking and floating and buoyancy with a water table or tub.
- Have a boat day theme where everything revolves around boats including snacks, stories, playground time, etc.

Curriculum and Standards Addressed

Ohio - Physical Sciences, Science & Technology, Scientific Inquiry,
Scientific Ways of Knowing

Kentucky - Physical Sciences, Scientific Inquiry, Applications &
Connections

Indiana - The Physical Setting, The Mathematical World, The Nature
of Science & Technology, Scientific Thinking, Common Themes

Related Exhibits and Features

- *Water Works* exhibit (Duke Energy Children's Museum)

Resources

- Boats on the River, by Peter Mandel
- Row Row Row Your Boat, by Iza Trapani
- Get Ready to Sail: Build and Float Soft Shapes, by Ikids
- The Magic School Bus: Ups and Downs, A Book About Floating and Sinking by Joanna Cole
- Let's Try it Out in the Water by Seymour Simon and Nicole Fauteux