

BOATS THAT FLOAT

GRADES K-3



MATERIALS

- Small squares of aluminum foil
- Ruler
- Plastic tub or bowl filled with water
- Small items such as crayons, pennies to test your boat's buoyancy



Using the aluminum square design a boat that you think will still float when you add objects in it.



Add one object at a time to your boat. What happens?



Make a boat with a different design. Add the same objects or test buoyancy with different objects.

KEY CONCEPTS

Physical Science

Explore buoyancy, density and gravity as they relate to floating.

Engineering

Explore different design concepts as they build their boats.

QUESTIONS TO ASK

- What shapes are you using in your boat design?
- How can you design a boat that will hold the most objects?
- What would happen if you used a different material to build your boat?
- If your boat doesn't float, what changes can you make to your design that might help it float.

THINGS TO NOTICE

- Child's joy and excitement as they design and build their boat.
- Child's wonderment as they float their boat and as objects to it.
- How the child works with the materials.
- What are they curious about?

AIMS HANDS ONLINE



VIDEO RESOURCES

- Why do ships float?
- **Archimedes Principle**

CHILDREN'S BOOKS

- Who Sank the Boat? by Pamela Allen
- What Floats in a Moat? by Lynne Barry