



# BUILD A BOAT

*Try out these challenges to see if you can make a boat that can float!*

## Big Idea:

Explore the concept of sink and float through experimentation and engineering.

## Materials:

- Aluminum foil
- Pennies
- Assorted recycled materials
- Rubber bands
- Container with water
- Duct Tape (optional)

## Directions:

### Challenge 1:

Build a boat with one sheet of aluminum foil. Put it in some water to see if it floats. Add pennies one at a time to see how many pennies your boat can hold.

### Challenge 2:

Build a boat with recycled materials from your house. Think about what type of materials sink and float. Does your boat float? How can you improve your boat design?

### Challenge 3:

Now let's get your boat moving! Try adding a sail or a propeller! How fast can your boat go?

