

# Floating and Sinking Activity Kit – PRO

Provided by **[kids-activities.net](https://www.kids-activities.net)**

This printable kit helps kids explore buoyancy, density, and the scientific method using simple water-based experiments. Perfect for classrooms, STEM weeks, or at-home learning.

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## 1. Sink or Float Prediction Chart

Record your predictions and results in the chart below:

[illegible]

## 2. Object Sorting Poster

After testing, sort items into the correct category below:

[illegible]

### **3. Why It Floats – Science Explanation**

An object floats when the water pushes up with more force than the object's weight pushing down. This upward force is called buoyancy.

Heavy objects like a steel ball sink because their weight is more than the buoyant force. A large boat can float because its shape spreads out its weight and displaces more water.

Try drawing arrows showing the balance of forces on a floating object.

## 4. STEM Boat Design Challenge

Design a boat using foil, sponge, or other materials. Then test how many coins or marbles it can hold before sinking. Use the space below to plan and record your experiment.

Design Plan:

Materials Used:

Number of Objects Held:

What Worked / What Would You Change?

## 5. Junior Water Explorer Award Certificate

This certificate is awarded to:

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For demonstrating curiosity, teamwork, and scientific thinking during the Floating and Sinking Activity Challenge!

Date: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_