

# STEM Freebee

## Sink or Float

### or Float

### Teacher Guide

Students predict whether objects float or sink  
and observe results.

Materials per student/team:

1 bowl of water,  
5-7 small objects

- Ex coin, cork, toy, leaf, crayon, sponge, bottle cap
- Test one object at a time.
- Record predictions first.
- Each object can only be tested once.

#### Steps:

- Ask students to predict if each object will float or sink. On the student Sheet.
- Drop objects in water one by one.
- Record the result.
- Discuss why some objects float and others sink.

- Tips:
  - Encourage drawings for predictions.
  - Discuss material properties (wood, metal, plastic).

- Challenge: Can you find a heavy object that floats?

Materials (per group of 4 students):

• 1 bowl of water  
• 5-7 small objects (coin, cork, toy, leaf, crayon, sponge, bottle cap)

TIME

just before activity to avoid water damage to each group.

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... it actually...

# Product Information

-  **Product Information** 
  - Bring STEM to life in your classroom with these hands-on, first-grade-friendly projects! Each activity is designed with **clear rules, materials, and step-by-step directions** so your students can dive into problem-solving, creativity, and collaboration.
  -  **How to Use:**
    - Print or display the activity slides for students.
    - Follow the **Teacher Guide + Setup Tips** to prepare materials.
    - Pass out **Student Worksheets** so learners can record predictions, designs, and results.
    - Wrap up with the included **Exit Ticket** to check for understanding.
  -  **What's Included:**
    -  **Student Worksheets**
    -  **Teacher Guide + Setup Instructions**
    -  **Slides for each activity**
  - Perfect for centers, STEM rotations, or whole-class challenges—your students will love exploring, building, and testing their ideas while you'll love how easy it is to implement!

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Thank you, bunny on a cloud  
clipart for letting me use their fonts



# Slide link

This is A Link To the Sink or  
Float Slides

**Click Me**

# Sink or Float Challenge

## Teacher Guide

**Goal: Students predict whether objects float or sink and observe results.**

- **Materials per student/team:**
  - Bowl of water,
  - 5–7 small objects
    - Ex coin, cork, toy, leaf, crayon, sponge, bottle cap
- **Rules:**
  - Test one object at a time.
  - Record predictions first.
  - Each object can only be tested once.
- **Steps:**
  - Ask students to predict if each object will float or sink. On the student Sheet.
  - Drop objects in water one by one.
  - Record the result.
  - Discuss why some objects float and others sink.
- **Tips:**
  - Encourage drawings for predictions.
  - Discuss material properties (wood, metal, plastic).
- **Challenge:** Can you find a heavy object that floats?

**Materials (per group of 4 students):**

- 1 bowl of **water**
- 5–7 small objects (coin, cork, toy, leaf, crayon, sponge, bottle cap)

**Setup Tips:**

- Fill bowls with **water** just before activity to avoid spills.
- Place objects on a tray next to each group.
- Have paper and pencils ready for recording predictions.

**Time:** 15–20 minutes

# Sink or Float Challenge

## Student Sheet [1 pr Group]

Object	Prediction (Draw/Write)	Result (Float/Sink)	Surprised? (Yes/No)	Notes

- My favorite object I tested was... \_\_\_\_\_
- I predicted it would sink / float but it actually... \_\_\_\_\_
- One new idea I learned is... \_\_\_\_\_