

# JR-SCIENTISTS

# SINK OR FLOAT?

Open up the fridge and the pantry drawers and you have everything you need to test sink or float with common household foods and supplies!

## INSTRUCTIONS

**STEP 1:** Place each item in the water and observe.

**STEP 2:** Record your observations.

Which items floated?

Which items sank?

**STEP 3:** Discuss your results.

## SUPPLIES

Large bowl of water

Different fruits and vegetables

Aluminum foil

Aluminum cans

Spoons

Sponges

anything your kiddos want to explore

## WHY DO SOME THINGS SINK AND SOME THINGS FLOAT?

Some objects sink and some objects float, but why is that?

Density and buoyancy! Every state of matter, liquid, solid, and gas, has a different density. All states of matter are made up of molecules and density is how tightly those molecules are packed together, but it's not just about weight or size!

Items that are more solid have molecules that are packed tighter together and will sink. Items that are less solid are made up of molecules that are not as tightly packed together so they will float!

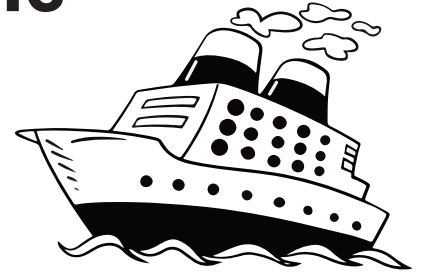
$$E=mc^2$$

$$E=mc^2$$



# Sink or Float Observations

Use this worksheet to process and evaluate your work.



I predict these will float.

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I predict these will sink.

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## RESULTS

Item

Yes, it floats!

No, it sinks!

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What did you learn?

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