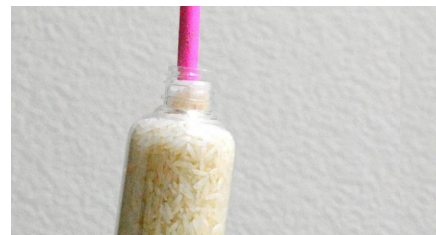


# Floating Rice - Simple Friction Experiment



Let's try this simple **friction experiment**.

## Active Time

15 minutes

## Total Time

15 minutes

## Materials

- uncooked rice grains

## Tools

- plastic bottle
- chopstick, pencil, pen or stick
- funnel (optional)
- adult supervision

## Instructions

1. Fill the plastic bottle to the top with rice grains. Optional: You can use a funnel for easier filling.
2. Make sure you fill the bottle all the way to the top. Press on the rice to compress it tightly.



3. Insert the blunt end of the chopstick or pencil into the rice and press it all the way to the bottom.



4. Lift slowly to test if the bottle comes up with the chopstick. If not, repeat this step several times. It will become increasingly difficult to push (or stab) the chopstick down.



5. Eventually, you won't be able to pull the chopstick out and you can lift the bottle and the rice together with it.





## Notes

- Try using different types of grains and see what happens.
- Try inserting (stabbing) from different angles or shake the bottle a little. What is the easiest way to make the chopstick stick?

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