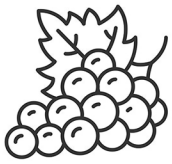
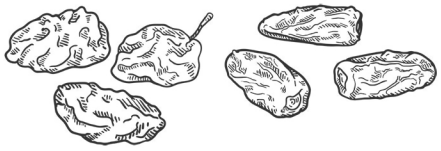
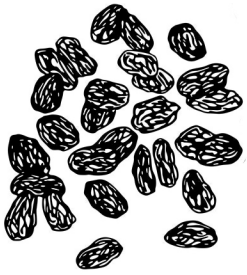
Jumping raisins

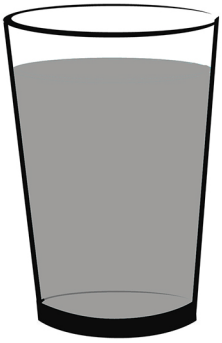




Who knew raisins could be so entertaining? With a little tap water, soda water, and a handful of raisins, your kitchen will become a laboratory for testing and understanding how buoyancy works.

What you'll need





* Two large, clear glasses
* Clear soda water with a lot of bubbles
* Tap water
* 8 raisins

How to do it

* Have you ever noticed that some objects sink in water and others float? Do this experiment to learn more about why.
* Fill one glass with tap water and the other with soda water. Consider: do you think the raisins will sink or float in the still water? How about the bubbly water? Why? Write the header Predictions; under it, write your predictions and why.
* Put 4 (or more) raisins in each glass of water and observe. Do they sink or float? What else do you observe? Write the header Observations; under it, write what you observe.

Questions to answer

What makes the raisins sometimes float?

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Do you think this would be the same with a blueberry or an apple? Why or why not?

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After the experiment [warning: spoiler alert!]: In tap water, the raisins should sink. In bubbly water, the raisin should first sink and then float, and then sink and float again. The raisins float in soda water because the bubbles attach to the raisins, making them rise to the surface. At the surface, the bubbles detach and the raisin sinks. Then the cycle repeats.