

# Dancing Raisins

**Concept:** Air bubbles cause objects to float.

**Materials:**

- 7-Up (Sprite and other clear, carbonated beverages will work as well)
- Tall, clear drinking glass
- Several fresh raisins

**Thinking and Predicting Question:**

Will the raisins sink or float when you place them in a glass of 7-Up? Why?

**What to do:**


Fill the glass with your clear, carbonated beverage. Drop a few raisins into the glass and observe.

**What will happen:**

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air bubbles

stick to the surface of the raisin as they rise up through the liquid. When they stick to a raisin, they give it extra buoyancy, causing it to float to the top. When the bubbles detach from the raisin, it sinks again.

After awhile, the soda will run out of fizz and it will no longer lift the raisins.

**Vocabulary:**

**Carbonation** – carbon dioxide bubbles in water

**Rise** – to go up; Float

**Sink** – to go down; fall to the bottom

**Discussion:**

What do you think will happen to the raisins when the water runs out of carbonation? Why do you think pop tastes “flat” after it’s been out for awhile?

Name: \_\_\_\_\_

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Fill the glass with your clear, carbonated beverage. Drop a few raisins into the glass and observe.

**What is carbonation? How can you tell it is in the 7-Up?**

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**~ PREVIEW ~**

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**Which is more dense: raisins or soda pop? How can you tell?**

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**What happened to the raisins? Why?**

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Name: \_\_\_\_\_

## Dancing Raisins - ANSWERS

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What is carbonation? How can you tell it is in the 7-Up?

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~ **PREVIEW** ~ it.

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Which is more dense: raisins or soda pop? How can you tell?

**The raisins are more dense than the soda pop because they sink.**

What happened to the raisins? Why?

**After a few seconds, they will float up to the top, then sink again. Raisins have more density than the 7-Up, so they sink to the bottom. But the carbon dioxide air bubbles stick to the surface of the raisin as they rise up through the liquid. When they stick to a raisin, they give it extra buoyancy, causing it to float to the top. When the bubbles detach from the raisin, it sinks again.**