

Name: _____ Date: _____

Answer Key: Frozen vs. Fizzy: Pre-K Matter Scientists Challenge

Little learners develop critical evaluation skills by predicting how different materials change and justifying why some things melt while others stay sticky.

1. If you leave a sticky popsicle on the hot sidewalk, what will happen to its shape?

Answer: C) It will melt into a flat puddle

Heat makes the solid popsicle change into a liquid puddle that spreads out flat.

2. Can you see the air inside a balloon making it big and round?

Answer: B) False

Even though we can't see most gases, we know they are there because they push the balloon out into a round shape.

3. Imagine you have a jar of wiggling worms. Why are they more like a liquid than a solid toy?

Answer: B) Because they move and take the shape of the jar

Liquids change their shape to fit whatever container they are in, just like wiggling things do.

4. When mommy cooks soup, the white 'ghosts' rising from the pot are actually ____.

Answer: B) Hot water turning into gas

Steam is water that has gotten so hot it changed into a gas and floated up.

5. If you put a hard wooden block in a round bowl, will the block turn into a circle shape?

Answer: B) False

Solids like wood keep their own shape even if you move them to a different bowl.

6. Why does a juice box feel heavy when full but light when you drink it all?

Answer: A) The liquid inside was heavy and now there is only light air

Matter has weight; when you remove the liquid, the box weighs much less.

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7. If you want to turn juice into a solid popsicle, you should put it in the _____.

Answer: C) Freezer

Taking heat away in a freezer makes liquids turn into hard solids.

8. Which of these is a gas that you can feel on your face at the park?

Answer: B) A blowing wind

Wind is moving air, and air is a gas that we can feel even if we can't see it.

9. If you step on a solid rock, it stays hard. If you step in a liquid puddle, it _____.

Answer: A) Splashes everywhere

Liquids are fluid and move out of the way when you push on them, causing a splash.

10. Can a solid toy truck turn into a liquid if you just leave it on the table?

Answer: B) False

Most solids need a lot of heat to melt; they won't just turn into liquid by sitting on a table.