S8P1a. I can develop and use a model to compare and contrast pure substances (elements and compounds) and mixtures. This includes homogeneous and heterogeneous mixtures.

Solids, Liquids, and Gas Lab

Prior Knowledge:

1. What is a solid? _____
2. What is a liquid? _____
3. What is a gas? _____
4. What is plasma? _____

Problem: How can you tell the difference between a solid, liquid, and a gas?

Hypothesis: If _____, then _____
_____

Materials: Vinegar, Beaker, water bottle, baking soda, balloons, funnel, spoon

Instructions/Procedure:

1. Fill your beaker with 50 mL of vinegar and pour it inside of the empty water bottle. What state of matter is the vinegar in? _____ How do you know? _____
_____

2. Attach your balloon to a funnel. Pour 3 teaspoons of baking soda into the funnel to get the baking soda into the balloon. What state of matter is the baking soda? _____
How do you know? _____

3. Remove the balloon from the funnel. Carefully cover the top of the water bottle with the top of the balloon. Predict what will happen when the liquid and solid mix. I predict _____
_____
_____

4. What did your balloon do? _____

5. What is the balloon full of? _____ How can you tell? _____
_____

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Lab Review Questions

6. What happened when you mixed the solid and liquid? _____

_____

7. What caused the balloon to rise? _____

8. What is the difference between a solid and a liquid? _____

_____

9. What is the difference between a liquid and a gas? _____

_____

10. What is the difference between a solid and a gas? _____

_____

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