

Reasoning:

Evidence:

Based on what you have figured out from our investigation, pick the claim that you most agree with. Use words and pictures to explain why you agree with it, and support your thinking with evidence from our investigation. Use reasoning to explain why each piece of evidence supports the claim.

Sarah and Michael were visiting their friend, Regina. They were in Regina's backyard, enjoying lemonade. The 3 friends made the following claims:

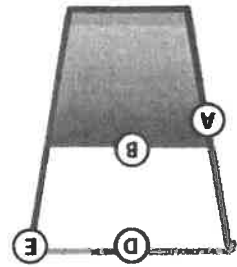
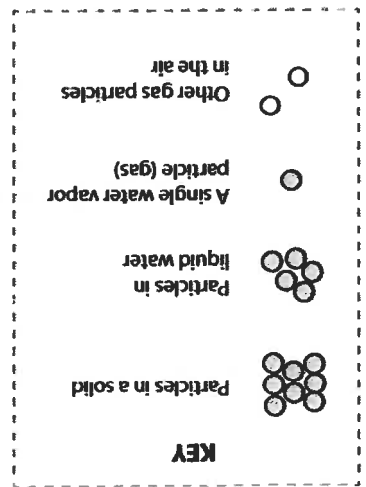
A. Sarah said, "Those droplets must be lemonade leaking from inside the pitcher."
 B. Regina said, "The droplets on the outside of the pitcher are water. They came from the air outside the pitcher."
 C. Michael said, "I agree that the droplets on the outside of the pitcher are water, but the water comes from the melting ice cubes inside the pitcher."

Gold Lemonade on a Hot Day!

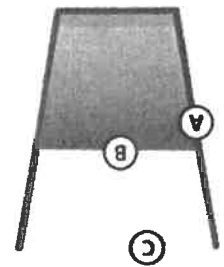
Name: _____

Date: _____

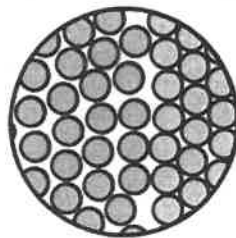
Particle Representations for Matter in the Cup System



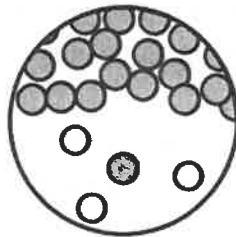
Cup with a lid



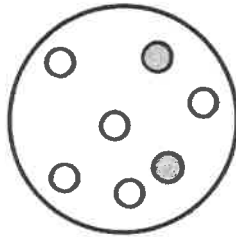
Cup with no lid



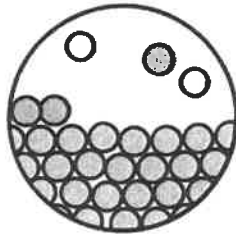
A
What is happening where the water particles in the liquid meet the particles of the solid plastic wall of the cup?



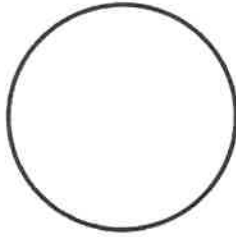
B
What is happening where the water particles in the liquid meet the air above it?



C
What is happening where the water particles that go into the air when there is no lid on top?



D
What is happening where the water particles that reach the solid plastic lid?



E
If there is a gap where the lid meets the wall that is wider than a single water molecule, what do you predict would happen to some of the water particles in the air when they reach this spot in the system?