

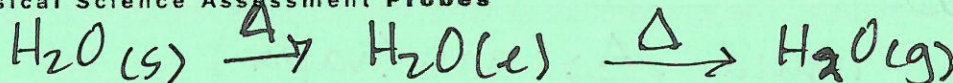
What's in the Bubbles?

Name: Key Date: _____ Period: 4

LT: I can use what I know about the properties of water in its different states to make an inference about a real world situation.

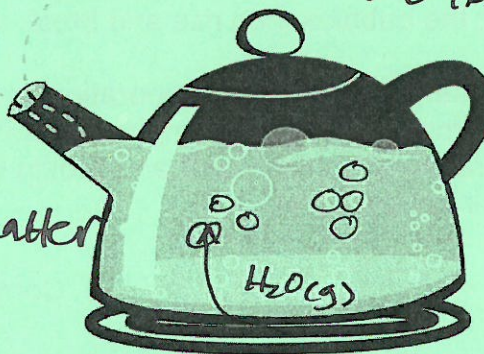
Physical Science Assessment Probes

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What's in the Bubbles?

Hannah is boiling water in a glass tea kettle. She notices bubbles forming on the bottom of the kettle that rise to the top and wonders what is in the bubbles. She asks her family what they think, and this is what they say:



- heat - energy not matter
- Dad: "They are bubbles of heat."
 - Calvin: "The bubbles are filled with air."
 - Grandma: "The bubbles are an invisible form of water."
 - Mom: "The bubbles are empty—there is nothing inside them."
 - Lucy: "The bubbles contain oxygen and hydrogen that separated from the water."

Which person do you most agree with and why? Explain your thinking.

Grandma is correct. When water begins to boil, the liquid water begins to change form to the gas form. We call this form water vapor. Water vapor is a gas and therefore is invisible. As Grandma said, water vapor is an invisible form of water. This is what the bubbles are.