

Expansion and Contraction of Matter: Gases, Liquids and Solids

⌋ Gases

Question: What happens when heat is applied to a gas?

Hypothesis:

Observations:

Explanation: Use the particle matter of model to explain why this happens.

⌋ Liquids: Race For The Top

Question: What happens when heat is applied to different liquids?

Hypothesis:

Materials:

- ✓ Water - blue
- ✓ Alcohol - red
- ✓ Vegetable Oil - yellow

Observations:

What did you find out? Page 216 #1-4

🔗 Solids: Ball and Ring and Bimetallic Strip

Part A: Ball and Ring

Demo 1:

Question: What happens when heat is applied to the ring?

Hypothesis:

Observations:

Explanation: Use the particle matter of model to explain why this happens.

Demo 2:

Question: What happens when heat is applied to the ball?

Hypothesis:

Observations:

Explanation: Use the particle matter of model to explain why this happens.

🔗 Summary

Of the three demonstrations that you observed complete the following summary sentences - be sure to discuss what is happening with the particles

- When thermal energy is added to matter the particles...
- _____ expand and contract more quickly because...
- _____ expand and contract more slowly because...