Clear packs of liquid

- 1. Try to avoid reading the information on the pack.
- 2. Pick up, examine, and describe the pack, being careful not to bend the button inside the pack.
- 3. Now gently flex and release the button inside the pack.
- 4. Describe what you observe and how the pack feels when you handle it.
- 5. Explain what you observe.



Effect of Freezing on Temperature (Clear packs of liquid)

Summary – This activity investigates the effect of freezing on the temperature of an object. A 'hand warmer' style heat pack is used. Flexing the metal disc within the pouch causes the molecules to arrange themselves such that a crystal forms. Once the first crystal forms, the entire solution will then crystallize around it.

Materials Needed

• A Heat Solution Model 304D or 304Z heat pack

Scientific Questions How does freezing affect temperature?

Possible Hypothesis

- Freezing has no effect on temperature
- Freezing causes warming
- Freezing causes cooling

Set up

• If the heat packs have been used previously, they can be returned to their initial state by placing in water at or warmer than 135 degrees F.

Notes

• Freezing of water releases energy from the water into the air and results in warming. Likewise, energy is released and warming occurs when water vapor condenses into liquid.