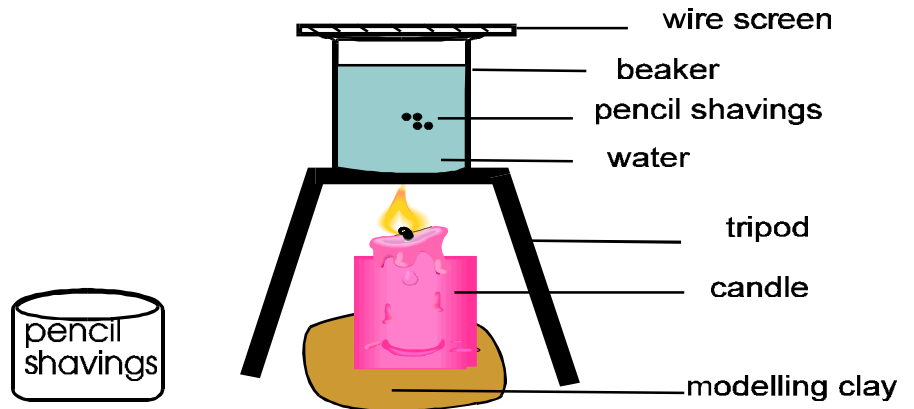

Performance Station: Heat

Factors of Scientific Literacy: C3, E3, E7

Learning Objective: To investigate the effects of heat energy on matter.

Materials

- pencil shavings
- beaker
- water
- wire screen
- tripod stand
- candle in modelling clay
- matches



Procedure

1. Set up the experiment as shown. The beaker should be 3/4 full of water.
2. Place a pinch of pencil shavings in the water.
3. Heat the middle of the bottom of the beaker for 2 minutes.
4. Describe what you see. Use a diagram.

5. Heat the edge of the bottom of the beaker for 2 minutes.

6. Describe what you see. Use a diagram.

7. Heat the other edge of the bottom of the beaker for 2 minutes.

8. Describe what you see. Use a diagram.

9. What makes the shavings go up?

10. What makes the shavings fall?

11. How are these observations related to weather systems?
