

## Heat and Temperature Online Activities

### Infrared Gallery

Read the introduction

1. What is infrared?
2. What temperature scale is used to show temperature?
3. What color does an ice cube appear as?
4. Describe the difference between the appearance of the cups of hot and cold water.
5. Describe the direction of the flow of heat; where does it occur in a cup of coffee?
6. Describe conduction; when does it occur.
7. After viewing the hand in the bag, describe why infrared might be useful to a fire department.
8. Why is the inside of a shoe red on an infrared image?
9. What part of an alligator is the coolest?
10. How does an alligator adjust its body temperature?
11. What parts of the dog are coolest?
12. What parts of the dog are warmest?
13. What causes the eruption of a geyser?
14. Describe the difference between a geyser, mud pot, and hot springs.

### Steam Machine

Read the introduction "Steam Machine"

Click the link to the steam machine simulation

Follow the instructions to get the steam machine to work.