

Monitoring Thermal Energy Activity

School Site:

Date:

Team Leader

Team Members

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The **Monitoring Thermal Energy Activity** is an exercise in detecting and tracking the temperature of various objects (body temperature, television, computer, mobile phone, sources, or spaces (e.g., office, home, building, room).

You will use the Infrared Thermometer to check the emissivity of temperature emanation. The device can be used to monitor the heat emissivity level of objects, things, and people indoors or outdoors.

Taking a Measurement

1. Point the Thermometer toward the surface you want to measure at least 7.5 to 8.0 inches away from the surface.
2. Press and hold the trigger to aim at the laser light.
3. Release the trigger to capture the temperature of the object.
4. Repeat steps 1-3 to take another data point.



Team Experiments

The goal of this activity is to measure and record the temperature indoors and outdoors by completing the following experiments with your assigned team.

No.	Object	Celsius (C°)	Fahrenheit (F°)
1	Asphalt Pavement		
2	Basketball Pole		
3	Mobile Device		
4	Computer		
5	Inside Door Handle		
6	Outside Door Handle		
7	Peer Forehead		