

Experiment: Cups and clothes



Equipment:

- An infrared camera
- A thin plastic cup
- A ceramic coffee mug
- Hot water in a kettle
- An outdoors jacket

Part 1:

Prediction:

You will pour hot water into the plastic cup and the ceramic mug. What will it look like on the screen of the infrared camera?

Observation:

Pour hot water into the cup and the mug, and observe what it looks like with the infrared camera.

Explanation:

Explain the outcome of the experiment. Did your observations differ from your predictions?

Part 2:

Prediction:

One of you will wear an outdoor jacket for about 2 minutes. What will it look like with the infrared camera afterwards on the outside of the jacket? What will it look like on the inside?

Observation:

Wear the jacket for two minutes, while the others watch on the outside with the infrared camera. After two minutes, watch on the inside of the jacket.

Explanation:

Explain the outcome of the experiment. Did your observations differ from your predictions?