

Angle and Temperature, Page 1



Prediction: Make a prediction by answering this question: **Which thermometer will have a higher temperature, the one with slanted light or the one with direct light?**

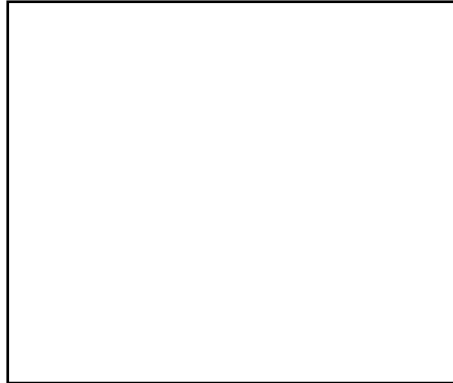
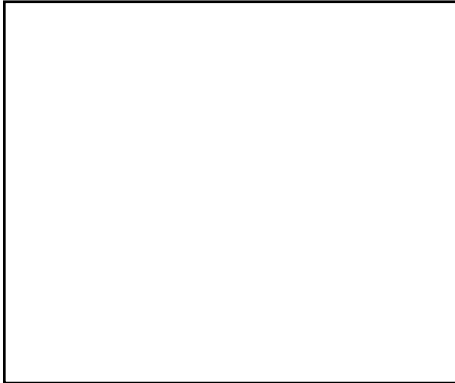
- 1 Record the beginning temperature of each thermometer.
- 2 Place both thermometers near each other in sunlight, facing south. Put one flat on the ground, and lean the other one against something so it is at an angle. Check the angle of each thermometer by holding a pencil against each book. The pencil should not cast a shadow on the book receiving direct sunlight.
- 3 Ask your teacher how many minutes you should wait between temperature readings. Write the numbers into the chart.

Time	Slanted thermometer (Direct light)	Flat thermometer (Slanted light)
Beginning temperature		
After ___ minutes		
After ___ minutes		
After ___ minutes		
After ___ minutes		
After ___ minutes		
Difference (last – first)		

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In the boxes below, draw the way your equipment is set up.



**Thermometer with
slanted light.**

**Thermometer with
direct light.**

Conclusion: Write a conclusion by answering this question: Which thermometer had a greater rise in temperature? Do your results match your prediction?

Why did this thermometer have a greater rise in temperature, rather than the other one?
