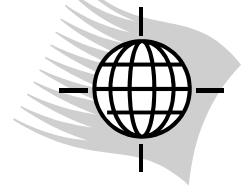


Name \_\_\_\_\_



## Sunlight Angles

**Question:** How does the angle of sunlight hitting the Earth affect the energy the Earth receives?

**Hypothesis:**

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**Materials:**

Flashlight	Pencil	Ruler	Graph paper (cm)
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**Procedure:**

1. Put the graph paper on your desk.
2. Hold the flashlight **5 cm** directly above the center of the graph paper.
3. Observe the area illuminated by the flashlight. Draw a circle around the squares that are in the light.
4. Each square on the graph paper is 1 cm. Record the number of  $\text{cm}^2$  illuminated by the light. Estimate the number of partial squares.
5. Repeat steps 2 – 4 with the flashlight held at an angle.



**Data:**

Area of paper illuminated ( $\text{cm}^2$ )	
Flashlight directly above paper	
Flashlight at an angle to the paper	

**Data Analysis:**

Make an appropriate graph to display your data. What type of graph will you use?

Why?

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