

# Solar Scavenger Hunt

Names: \_\_\_\_\_

**Directions:** Experiment by testing how much electricity your solar panel can produce using different light sources and different distances from the light source. Record your multimeter readings on the table below.

Light source	Solar panel distance to light source	Multimeter reading (in Volts)
Light source 1:		
Light source 2:		
Light source 3:		
Light source 4:		
Light source 5:		

1. Which conditions (light source and distance from the light source) produced the MOST electricity?
2. Which conditions (light source and distance from the light source) produced the LEAST electricity?

**Directions:** Experiment by testing how much electricity your solar panel can produce when changing the angle from the light source. Record your multimeter readings on the table below. All readings should be taken from the SAME distance.

<b>Light source</b>	<b>Solar panel angle to light source</b>	<b>Multimeter reading (in Volts)</b>
Light source 1:	0 degrees (facing)	
	45 degrees tilt	
	90 degrees (perpendicular)	
Light source 2:	0 degrees (facing)	
	45 degrees tilt	
	90 degrees (perpendicular)	
Light source 3:	0 degrees (facing)	
	45 degrees tilt	
	90 degrees (perpendicular)	

1. Which conditions (light source and angle) produced the MOST electricity?
2. Which conditions (light source and angle) produced the LEAST electricity?