

Name(s): _____

Date: _____

Period: _____

Solar Panel Challenge!

Challenge #1: Use 0.5V solar panels to turn a fan clockwise. Attach a multimeter to your circuit to record the voltage and current of a successful circuit. Try to use as few solar panels as possible.

Successful Circuit Diagram:	Other Successful Circuit Diagram:	Voltage:	Current:
		Ambient Indoor lighting: <div></div>	Ambient Indoor lighting: <div></div>
		Enhanced indoor lighting: <div></div>	Enhanced indoor lighting: <div></div>
		Outdoor sunlight: <div></div>	Outdoor sunlight: <div></div>

Challenge #2: Use 0.5V solar panels to turn a fan counter-clockwise. Attach a multimeter to your circuit to record the voltage and current of a successful circuit. Try to use as few solar panels as possible.

Successful Circuit Diagram:	Other Successful Circuit Diagram:	Voltage:	Current:
		Ambient Indoor lighting: <div></div>	Ambient Indoor lighting: <div></div>
		Enhanced indoor lighting: <div></div>	Enhanced indoor lighting: <div></div>
		Outdoor sunlight: <div></div>	Outdoor sunlight: <div></div>

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Solar Panel Challenge!

Challenge #3: Use 0.5V solar panels to light up an LED bulb. Attach a multimeter to your circuit to record the voltage and current of a successful circuit. Try to use as few solar panels as possible.

Successful Circuit Diagram:	Other Successful Circuit Diagram:	Voltage:	Current:
		Ambient Indoor lighting: <div></div>	Ambient Indoor lighting: <div></div>
		Enhanced indoor lighting: <div></div>	Enhanced indoor lighting: <div></div>
		Outdoor sunlight: <div></div>	Outdoor sunlight: <div></div>

Challenge #4: Use 0.5V solar panels to run the small-load music player. Attach a multimeter to your circuit to record the voltage and current of a successful circuit. Try to use as few solar panels as possible.

Successful Circuit Diagram:	Other Successful Circuit Diagram:	Voltage:	Current:
		Ambient Indoor lighting: <div></div>	Ambient Indoor lighting: <div></div>
		Enhanced indoor lighting: <div></div>	Enhanced indoor lighting: <div></div>
		Outdoor sunlight: <div></div>	Outdoor sunlight: <div></div>