



Solar Power Project Activity Guide

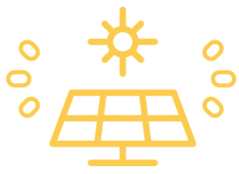
1. Set up your project

2. Answer this quick question:

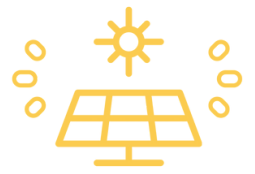
Explain how Solar Power works in 1 or 2 sentences:

3. Complete the experiments and table below

Experiment	LED on? (Y/N)	How Bright? (1-10)	General Observations (consistency, how to improve it, anything else!)
Without flashlight			
Outside in real sun			
Short vs. long distance from light			
Angle...			
Multiple LEDs			
Clouds			
Temp. (Hot / Cold air)			
Dirt / Grass			
Your own experiment: (ie: long wires)			



Activity Guide



Draw arrows from the step number to the order of the actual step:

STEP 1

STEP 2

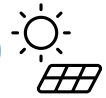
STEP 3

STEP 4

STEP 5

STEP 6

Sun Rays interact with Solar Panels



Silicon is mined from around the world to build Solar Panels



Homes & Businesses tap into power grid to access the usable energy



Rays from the sun sent down towards the Earth



Electrons start to move around & create an elec. current (called the photovoltaic effect)



Solar Panels transfer electric current to the power grid



Rank the following places in order from best to worst locations to put a solar farm. (1 is best, 2 is middle, 3 is worst)

Place	Picture	Sunny days per year	Average summer temp.	Rank
Seattle, WA		152	72°	
Los Angeles, CA		275	83°	
Middle of nowhere desert		308	116°	