



## Design a Solar House

### Materials

- cardboard
- tin Foil
- hot glue
- tape
- rubber bands
- markers
- lamp/light source



### Instructions

1. Students (as a group) design a solar panel house to best capture the light coming from a lamp. Brainstorm ideas for the house and where the solar panels will be placed. Sketch up designs.
2. Students the build their model house with solar panels. Panels can be arranged on the roof, in the garden, or something completely different. Be creative.
3. Ask students to use the lamp or a light source to test out how changing the angle of the 'sunlight' changes how much sunlight hits the solar panels. They may want to change the angles of their solar panels or move objects in the way.

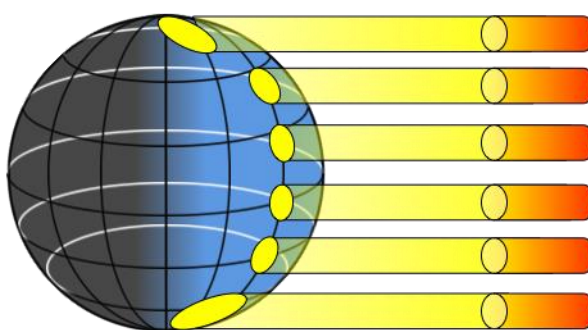


Diagram – sunlight hits a smaller area when directly above the Earth, but at lower angles the same light is spread over a larger area.