# Activity: Solar Cell

Build up

Draw the parts of the solar cell experimental kit and how to assemble them. Then build the model according to the instructions.

Experiments

Experiment 1: Cover a part of the solar cell with the black paper, first partially and then completely. What happens?

No black paper => \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Completely covered =>\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Partially covered => \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Experiment 2: Move the solar cell further away from the lamp and then get closer.

What happens?

Experiment 3: Tilt the solar cell to change the angle between the solar cell and the lamp.

What happens?

How it works

Draw the solar cell with fan with graphic symbols (arrows, lines, etc.) representing its operation. Which forces of nature are at work here? How is the energy transported? How can you make the fan rotate the fastest?