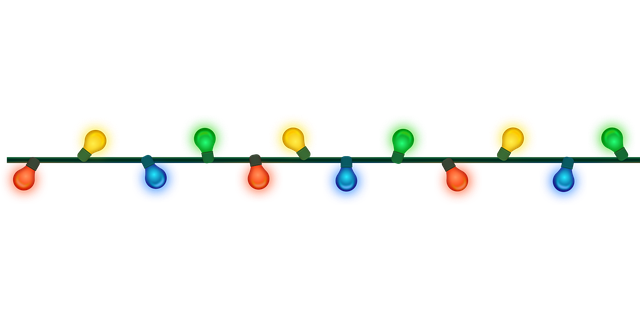
Garden Light Experiment - questions



Fill in the missing boxes:

| Test | Question | Answer |
| --- | --- | --- |
| 1 | How long do you need to shine light onto the solar panel before the Bulb starts to glow dimly? |  |
| 2 | How long do you need to shine light onto the solar panel before the Bulb starts to glow brightly? |  |
| 3 | Once the Bulb is shining brightly, if you disconnect the Solar Panel from the Solar  Store, how long is it before the Bulb goes out? |  |
| 4 | Try your experiments with different light sources such as the sun or different  brightness indoor lighting to see how it affects the timings. |  |

**Challenge questions:**

1. The Solar Panel uses photo-voltaic cells. What do you think photo-voltaic cells do?
2. Do the same experiment with the fan. Are the times shorter or longer?
3. By looking at the garden light circuit do you know how long the bulb will stay lit when you either unplug the solar panels or if it goes dark?
4. In the next lesson you will be attaching a micro:bit to the circuit. Can you work out what type of things the micro:bit might be able to control or measure?