SUPER CELLS

Cells that Capture Light

Watch the video here: youtu.be/JGRiVvDyF_Q

Swansea University
Science for
Schools Scheme

CELLS THAT CAPTURE LIGHT

SOLAR HEATERS

The Activity

I did it!

Materials

- Thermometer
- Stopwatch or timer
- Clear container with lid
- Water

1. Fill your container with water.
2. Place your container of water in a sunny area (a garden or a windowsill).
3. Use the thermometer to measure the starting temperature of the water.
4. Put the lid on the container and start the stopwatch.
5. Measure the temperature of the water at regular intervals (every minute or two) for 20 minutes.
6. Think about how you could improve the design of your container to heat the water more efficiently. Could you use a container of a different shape, size, colour, material, etc?
7. Repeat this procedure for different containers to find out which designs work best.

ACTIVITY SHEET

PLANT POWER

How do plant cells make energy? Draw, or write, your answer below.

SOLAR POWER

How do solar cells make energy? Draw, or write, your answer below.

Tick the sentences which you think are true.

- [ ] Solar power is good for the Earth.
- [ ] Solar panels can be put on a roof to make energy to use in the house.
- [ ] Solar power can always make energy, in any weather.
- [ ] Solar power will eventually run out.
- [ ] Solar panels are cheap to build.
- [ ] Solar power is renewable.
- [ ] The sun shines on solar panels, which can then heat water or make electricity.
- [ ] Solar panels need a lot of space.

Write one reason why solar power is good.

Write one reason why solar power is bad.

Swansea University
Prifysgol Abertawe

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