

Scientists and Inventors


Lesson 3: Maria Telkes

Friday 29th January

Maria Telkes

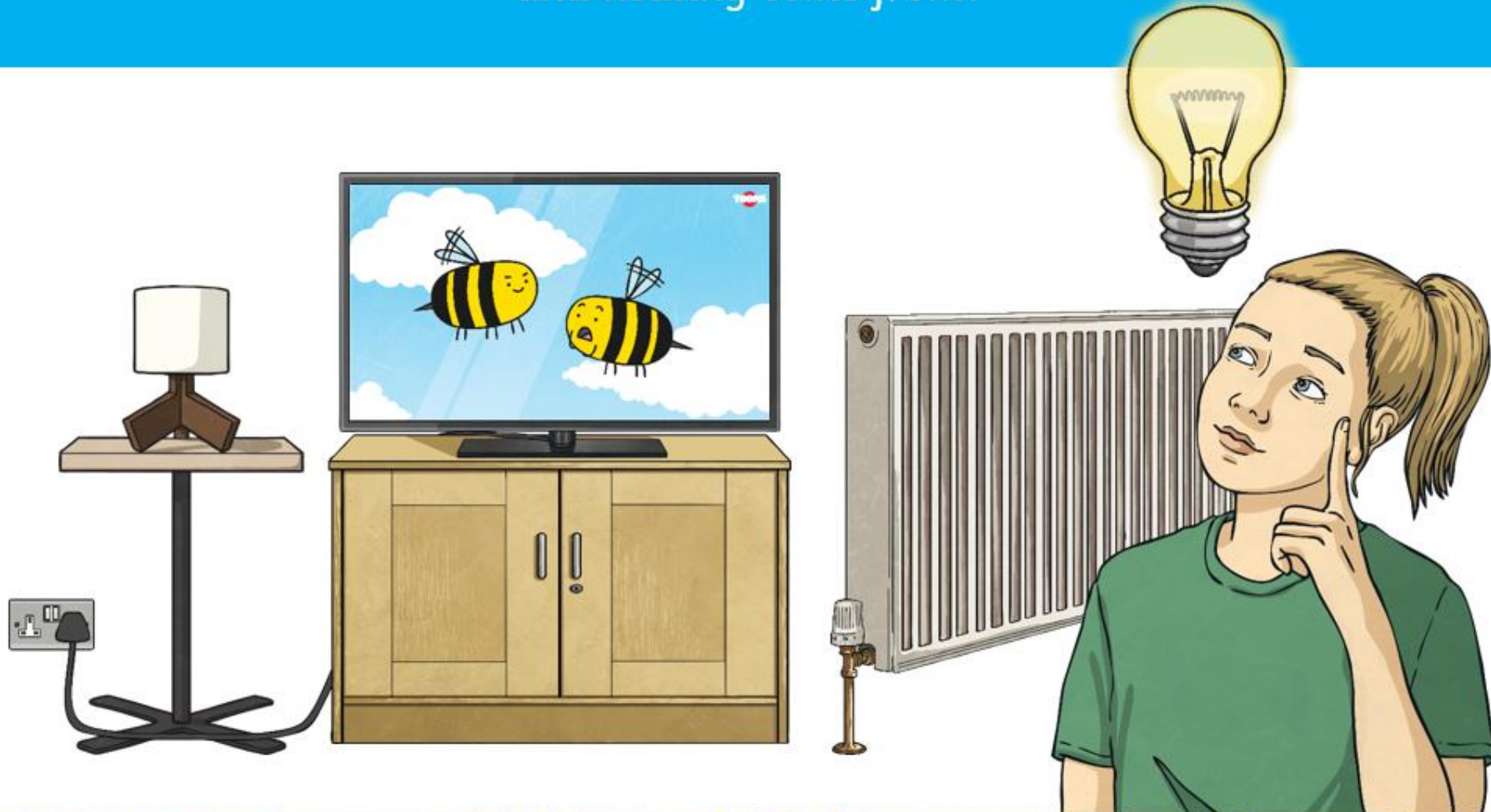


Success Criteria

- I can identify the achievements of Maria Telkes.
 - I can explain how the sun's energy can be used to heat things.
 - I can explain why solar power is a good source of energy.
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We've Got the Power

Think about how you get power to your home. Where do your electricity and heating come from?



Solar Power

The word 'solar' is used to describe something related to the sun.

If something is solar powered, it means that it runs off the energy we get from sunlight.

Some people have solar panels on their house so that some of their electricity comes from the sun.



Solar Power

Often, we get our power from fuel sources dug out of the ground, which will **one day run out completely**. However, solar power is a renewable energy source, which means that it will not run out – just like wind or water power.

Although it costs us money to build the equipment which will harness solar power, sunlight itself is free!

Can you think why people might prefer solar, or other renewable energy sources, to fuels from the ground?



Watch the clip to find out more about solar energy and the work of inventor, Maria Telkes.

<https://www.youtube.com/watch?v=f00jNPJpqs8>



Maria Telkes

Maria Telkes is a famous scientist who made lots of discoveries around solar power. She was born in Hungary in 1900.

She is best known for creating the first house built with a heating system that ran completely on solar energy – The Dover Sun House – with the architect Eleanor Raymond.

Her other inventions include a solar-powered **desalination machine** (which uses solar energy to remove salt from water at sea). This saved the lives of many people stranded at sea.

There are many schools named after her today, especially in the USA where she worked for many years.

Her work in solar energy is so well known that she is sometimes called the Sun Queen.



Task: use the teaching slides and video to help you.

Make an information poster all about solar panels:

- Include some history about Maria Telkes and her work to invent solar panels.
- Include information about how they work.
- Use labelled diagrams.
- Tell the reader about the benefits of solar panels

Remember to include; headings, sub-headings, information boxes and labelled diagrams.

Well Done Year 4!

I hope you enjoyed learning about Maria Telkes and the importance of her work.

