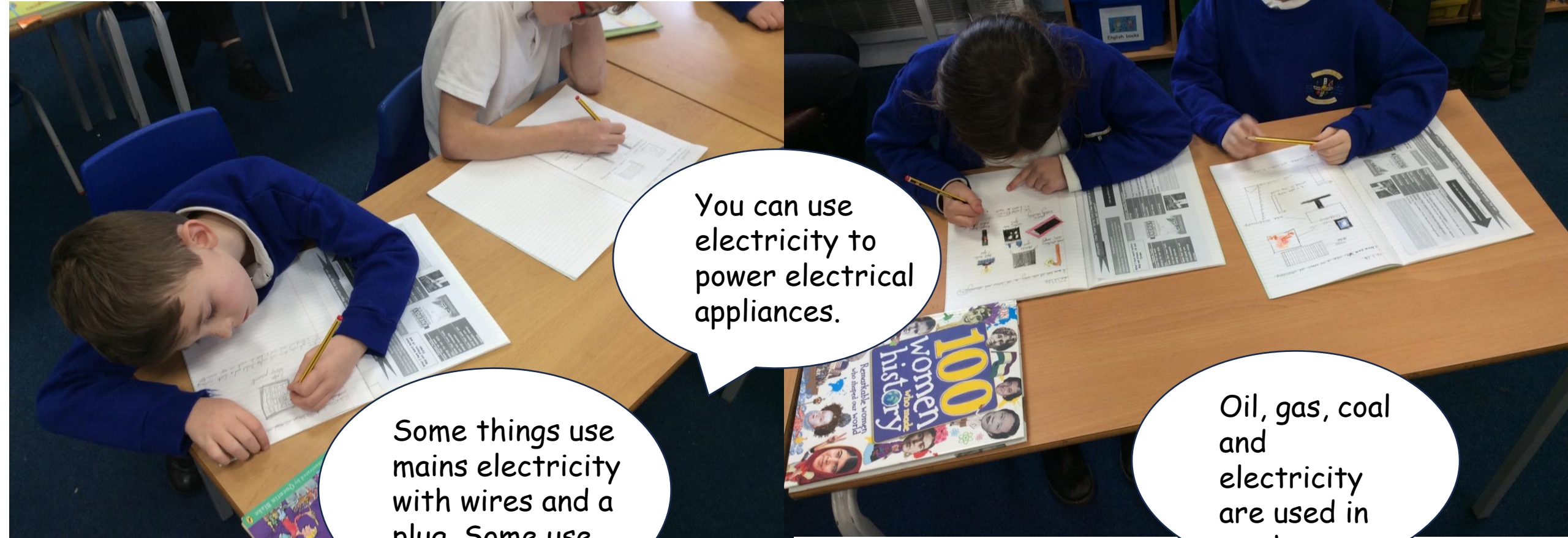




Tamar Spring Term 2 24

How important is energy for our
homes and country?



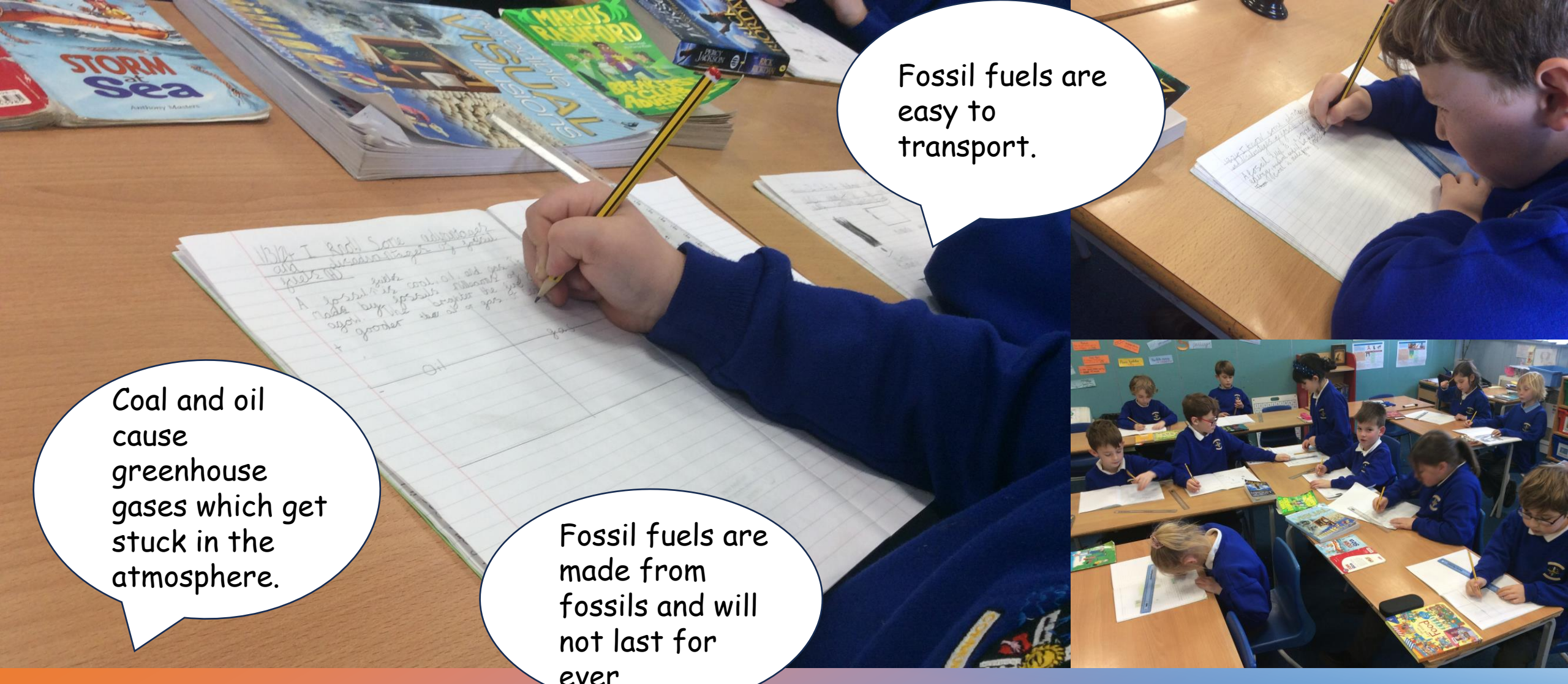


You can use electricity to power electrical appliances.

Some things use mains electricity with wires and a plug. Some use batteries.

Oil, gas, coal and electricity are used in our houses.

We thought about how we use energy in our homes and the community. Sources of energy can be, mains electricity, battery electricity, gas, oil, wood and coal.



Fossil fuels are easy to transport.

Coal and oil cause greenhouse gases which get stuck in the atmosphere.

Fossil fuels are made from fossils and will not last for ever.

We thought about the advantages and disadvantages of fossil fuels.



There were lots of solar panels to make electricity from the sun.



We went on a visit to Four Burrows Solar and Wind Farm with Rob. We found out that one of the jobs is looking after the Solar Farm.

The sunlight hits the panel which makes the electricity.



Solar energy is renewable because the sun keeps shining.

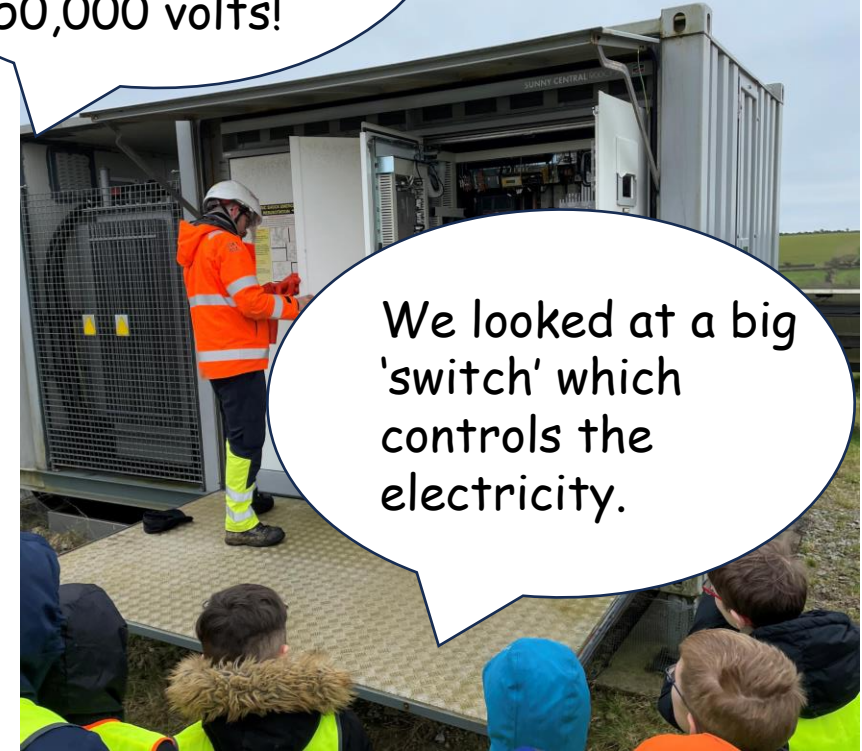
We found out that solar power is a renewable energy source. We looked at how the engineers have to be very careful because electricity can be dangerous.

If you have wet hands near electricity you can get electrocuted.

Electricity can be really dangerous.



The man wore special gloves which could protect him from 50,000 volts!



We looked at a big 'switch' which controls the electricity.



Wind turbines are really big!

The wind turbine spins which makes the rotor spin which makes electricity.

Wind turbines produce renewable energy because the wind never stops.

The blades can only turn at a certain speed.

We went to the Wind Farm. They had to stop some of them so we could walk nearby.

A black hand means stop.



7

We had to stay a certain distance away from the transformer because electricity can jump!



There were lots of signs to keep everyone safe. At the end of our trip we looked at the transformer. It was very big and sends all of the energy from the wind farm to houses and businesses.

IN CASE OF EMERGENCY
CONTACT
RENEWABLE ENERGY SYSTEMS
TEL: 0141 419 7990
24 HOURS

We saw a transformer which sends the electricity to our houses.



Geography Class Tamar Spring Term 2 How important is energy for our homes and country?

Personal Development

Children know where energy comes from and the advantages of renewable energy. They are aware that electricity is transported around the country and that renewable energy provides jobs.

Our Endpoint

I can say where our energy comes from.

What I have learnt before:
Map and Atlases, UK and Europe.

Exciting Books

Subject Specific Vocabulary

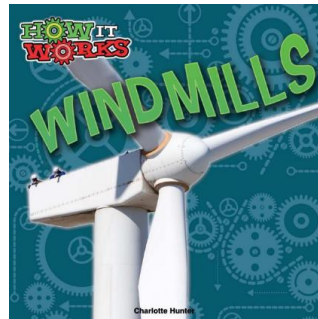
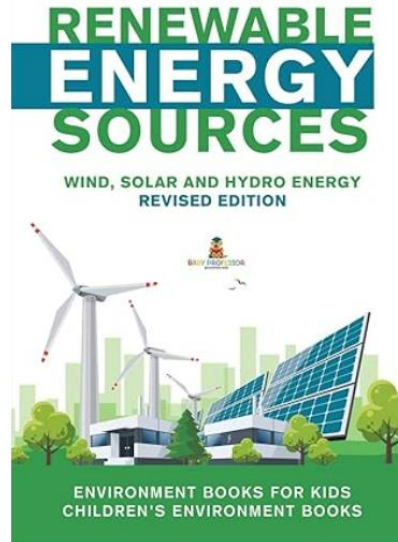
Energy	The ability to do something.
Fossil Fuels	Fuels from organisms millions of years ago, gas and coal.
Non-renewables	Fossil fuels cannot be reused again.
Renewables	Energy made from sources that nature will replace.
Solar energy	Energy that comes from the sun through solar panels.
Wind energy	Energy that comes from the wind through wind turbines.

Forever Facts:

Know that we need energy for our daily life.

Know that fossil fuels are non renewable energy sources.

Know that solar and wind power are renewable energy sources.



Skills:

Express views and recognise how people affect the environment.

Suggest ways towards reducing climate change.