STEM EDUCATION PROGRAMME

Energy

Power to the People

LO: To understand the importance of energy in our daily lives

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WHO ARE SSE?

Do now:

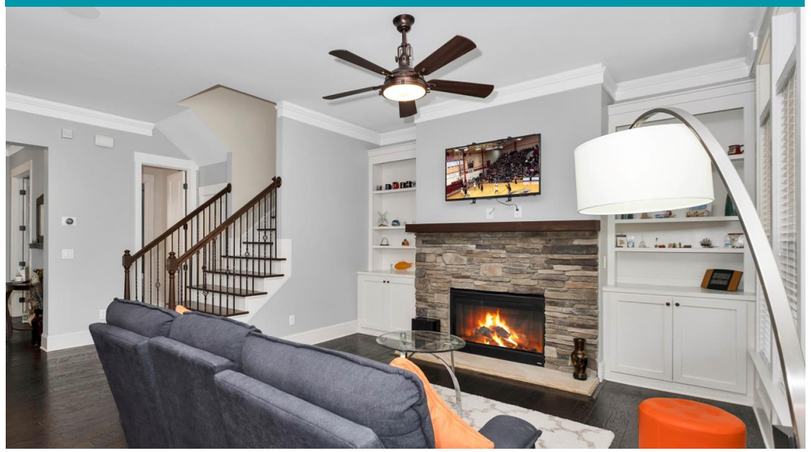
What do you know about energy?

KEY WORDS

energy

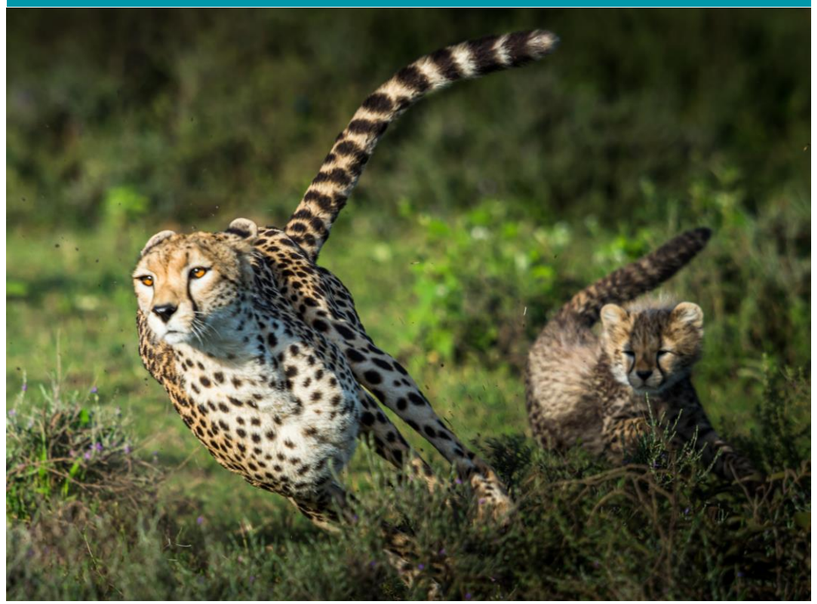
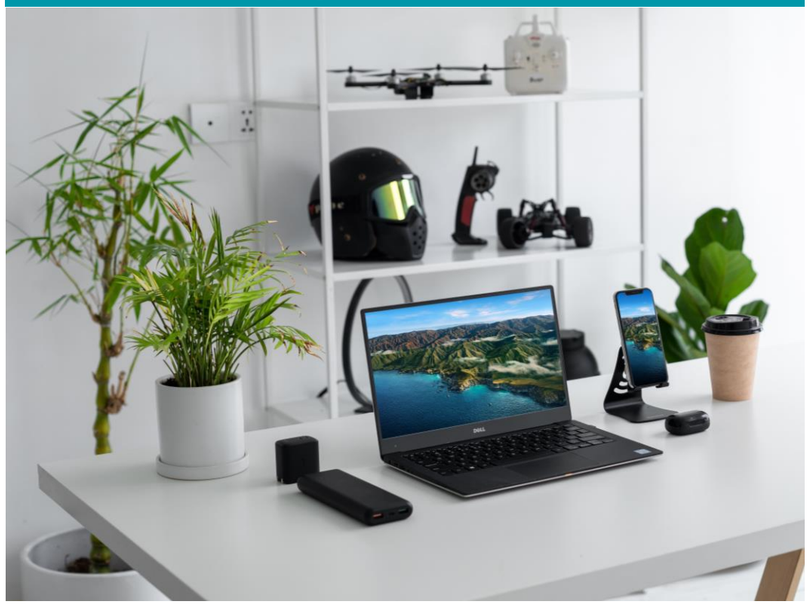
electricity

consumption



What is energy?

Energy gives...

people	living things	appliances
		

...the power to function every day

Food Energy

Animals including ***humans*** get their energy from eating ***food***

Meat, fish and dairy are full of ***protein*** that make you strong

Solar energy

Plants use energy from the Sun

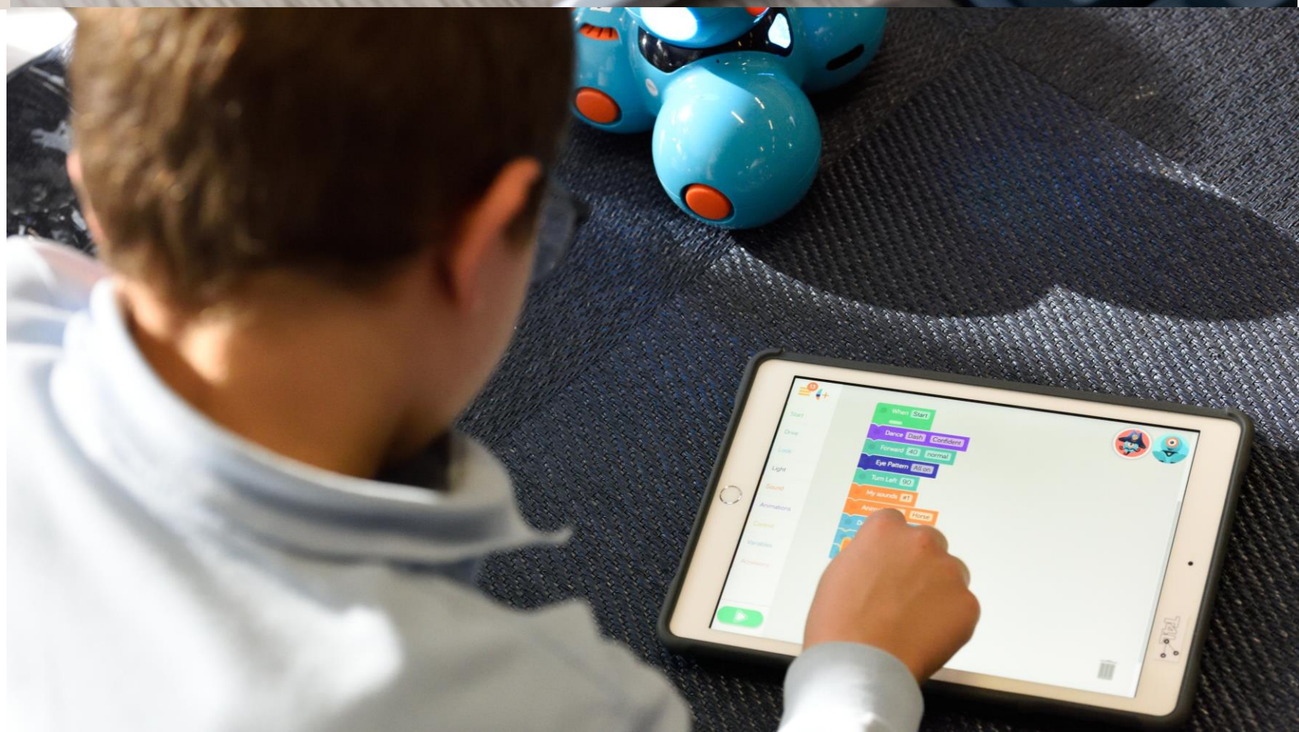
The light and heat allows them to grow

Fuel energy

Most ***vehicles*** get their energy from different types of ***fuel*** e.g. cars, busses and aeroplanes

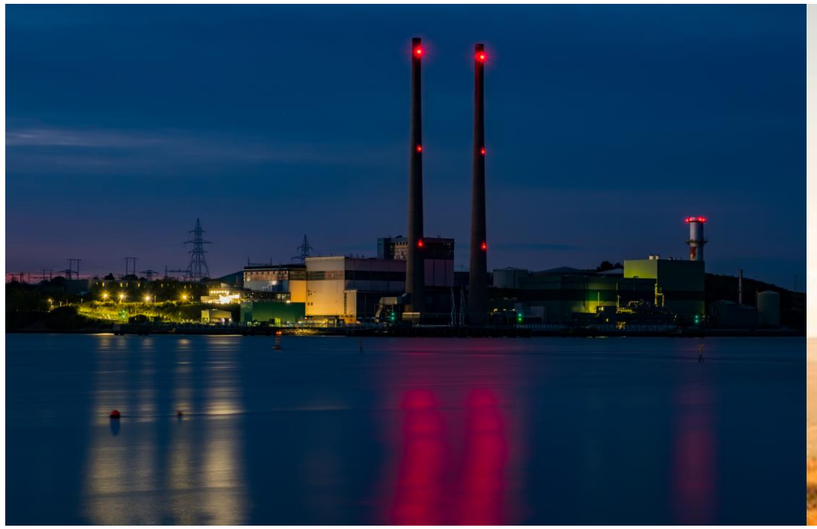
Electrical energy

Electricity provides many things with energy e.g. in our ***homes***, at ***school*** and in the ***wider world*** we live in



How is electricity made?

Electricity is generated in many different ways including...



power stations **wind turbines** **solar panels**

How do we access electricity?

This electricity then travels along ***wires*** held up by ***transmission towers*** or ***wooden poles*** to different places

- Homes
- Schools
- Shops

Can you name anywhere else?

Can you spot the energy consumption?

Can you spot the energy consumption?

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Can you spot the energy consumption?

Main activity:

Recording your
daily energy consumption

Which essential skill are we developing?

SPEAKING

The oral transmission of information or ideas

STEP 8

I speak engagingly using visual aids to support my points

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Daily energy consumption

Daily energy consumption

1

2

3

4

5

6

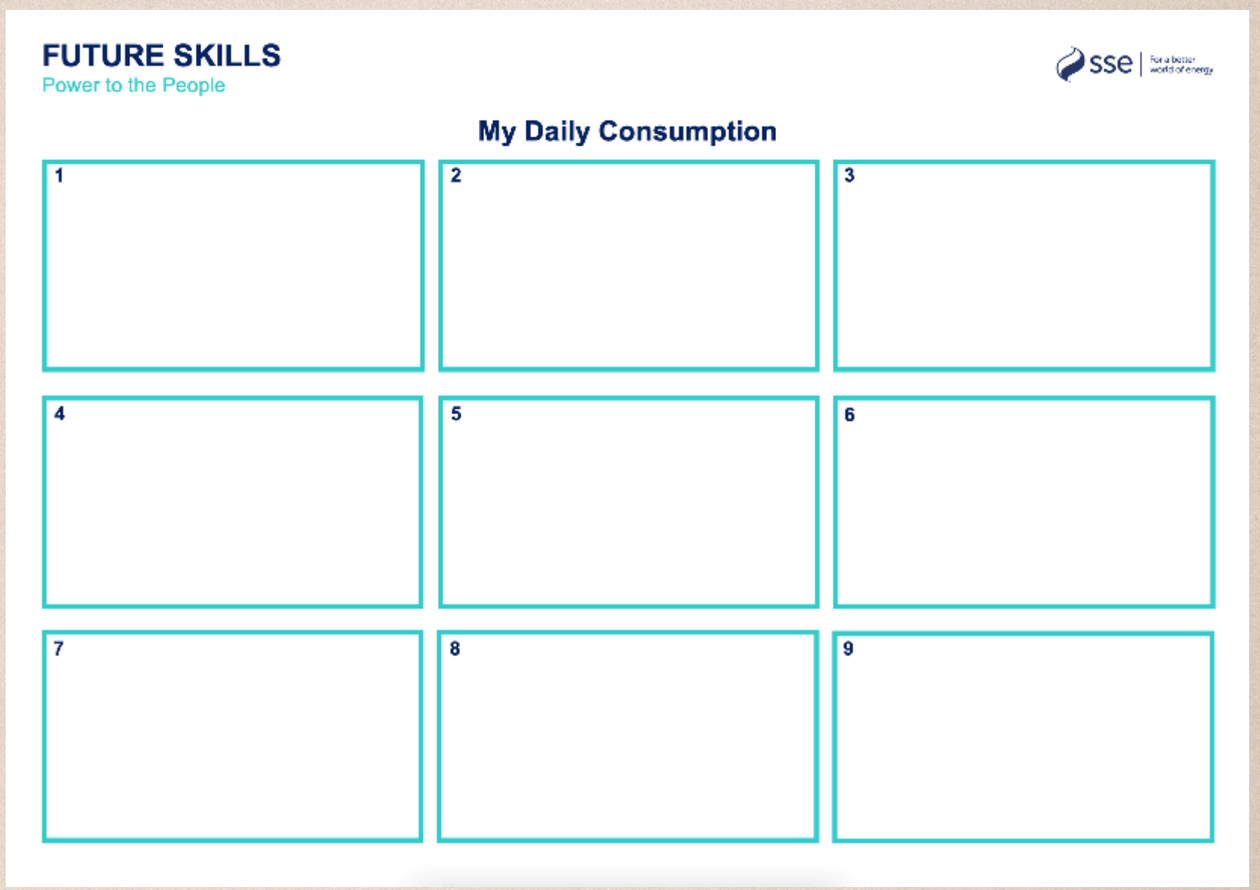
7

8

9

Main activity:

1. Think about all the things you do in your daily routine
2. Think about how you are consuming energy
3. Draw a picture of each action and label the energy consumption e.g. electrical, fuel and food



FUTURE SKILLS
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My Daily Consumption

1	2	3
4	5	6
7	8	9

Presentations

- 'When I wake up...'
- 'First'
- 'Secondly'
- 'When I go to school...'
- 'Then'
- 'Next'
- 'In the afternoon...'
- 'After'
- 'Later'
- 'Meanwhile'
- 'In the evening...'
- 'Eventually'
- 'Finally'
- 'When I go to bed...'

SPEAKING

What is your daily consumption routine?

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How have we used our Speaking skills?

- What is a visual aid?
- Why is it useful to include these in a presentation?
- Can visual aids sometimes be unhelpful? Why?

Glossary

Appliances – usually an electric item that performs a specific job e.g. a kettle
Electrical energy – energy that powers electrical items including phones, tablets and lights
Electricity – powers all sorts of electrical items including hairdryers, dishwashers and washing machines
Energy – what gives people, animals, appliances the power to function
Consumption – using energy to do different things e.g. exercise, cook, travel, heat our homes and use devices e.g. a tablet
Power stations – places where things are often burned to generate fuel or electricity
Food energy – energy from food
Fuel energy – energy from different types of fuel (mostly used to power vehicles)
Solar energy – energy from the Sun
Solar panels – panels which convert light energy form the Sun into electricity
Transmission towers – tall metal towers that hold up wires carrying electricity
Wind turbines – tall structures with a fan that spins in the wind to generate electricity
Wooden poles – tall poles that hold up wires carrying electricity

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Activity	Time Allocation Guide
Do Now	5 mins
Introduction to energy consumption	15 mins
Provide Model: Daily energy consumption	10 mins
Pupil Practise: Daily energy consumption	15 mins
Review of Learning: Presentations	15 mins

HOST FEEDBACK

Host Feedback

Please share your work with us on social media using our hashtag **#STEMatSSE**

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Contact us at ***stem@sse.com*** to request a volunteer from SSE to deliver the lesson

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