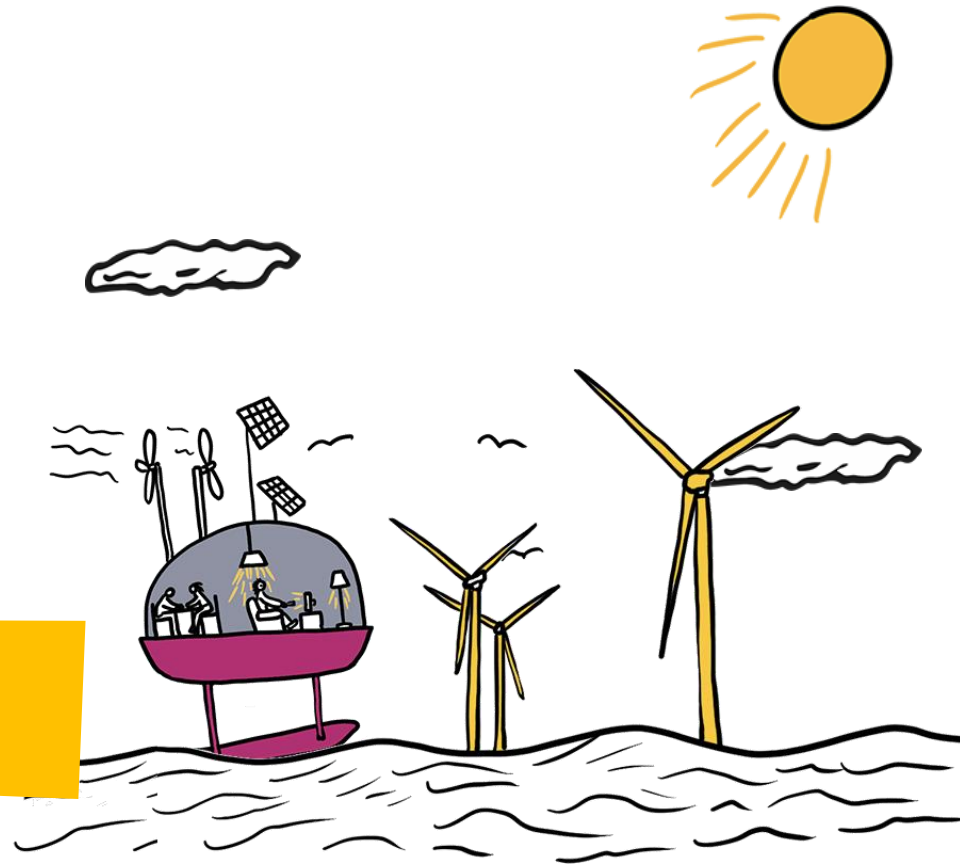


A cartoon character wearing a red helmet with a lightbulb on top, holding a pencil and a clipboard. The character has a friendly expression and is looking towards the text.

Little Inventors Pioneers!

The Energy Challenge
@ Montalbo Home Learning



Introducing Little Inventors!



We believe children have the best ideas, and we take them seriously.

In fact, we make them real!!

Arthur, from Stockton-on-Tees invented the Supergrow 11000, to help plants get more sunlight.

And today, we want YOU to join Arthur in inventing with us...

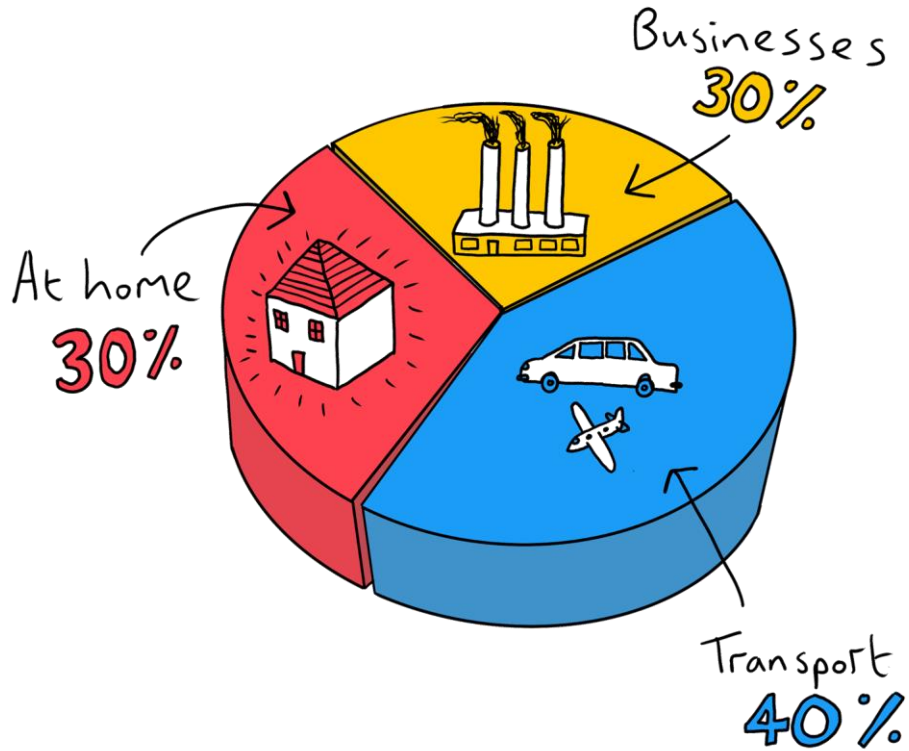


Your challenge: become an energy pioneer! Think up invention ideas to generate energy, save energy or use energy better...

If you cant play the video... try this link:

https://www.youtube.com/watch?time_continue=1&v=hFo_TrD3W3Q&feature=emb_logo

Climate change and energy



The way we produce and use energy is the biggest reason for pollution on Earth. It's the main cause of climate change.

For a better future for you and your own children, we must change how we think about energy.

Energy makes the world go round



Where there is action or life, there is energy!
When we move or when cars work, they use energy...

The energy inside us

Our bodies require energy to do all the activities we do in a day.

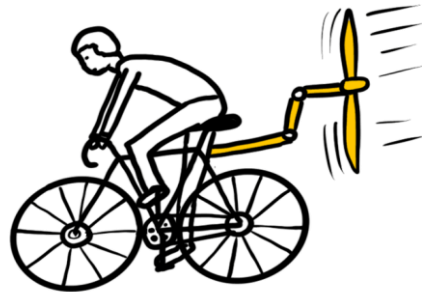
Energy in calories your body uses per hour when you:



Sleep
60



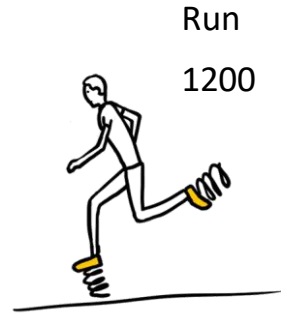
Read
90



Cycle gently
180



Gardening
210



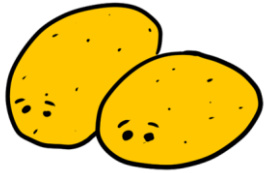
Run
1200



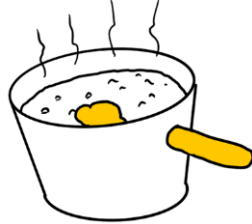
The energy journey of food

Think about what it takes to make potato waffles....

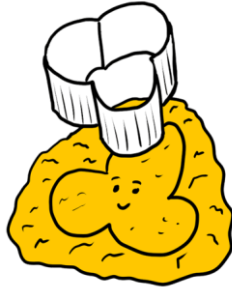
Raw potatoes will be...



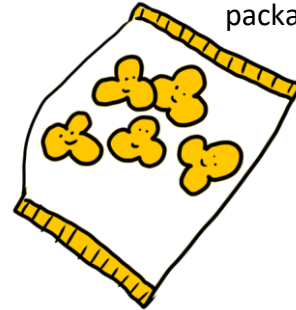
boiled



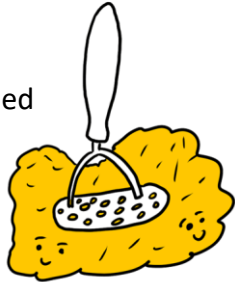
shaped



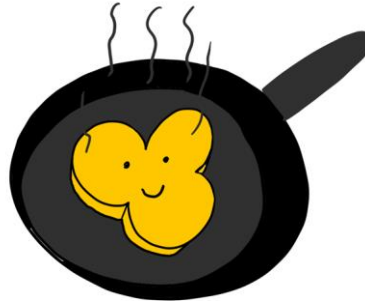
packaged



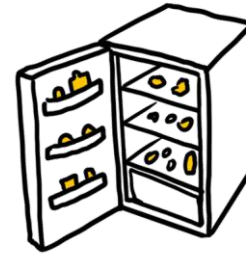
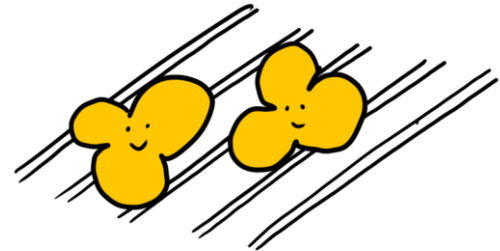
mashed



fried

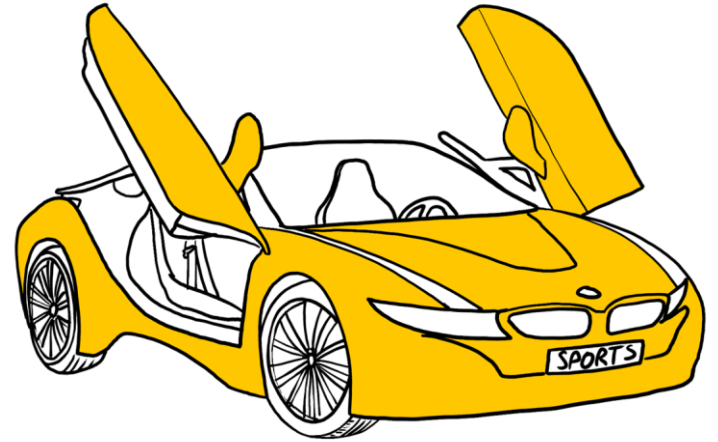


grilled



frozen

Our history in energy

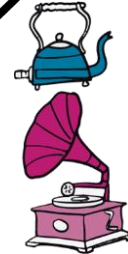


Energy in the digital age

Energy use through the ages



Stone age



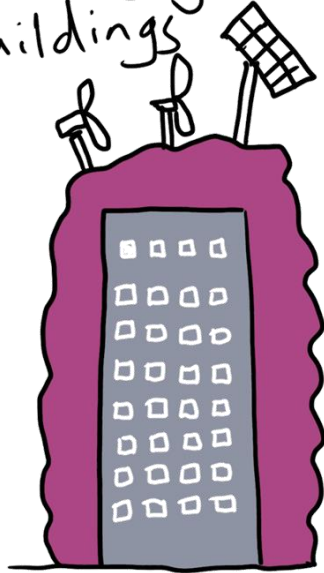
1800s



now

The future of energy

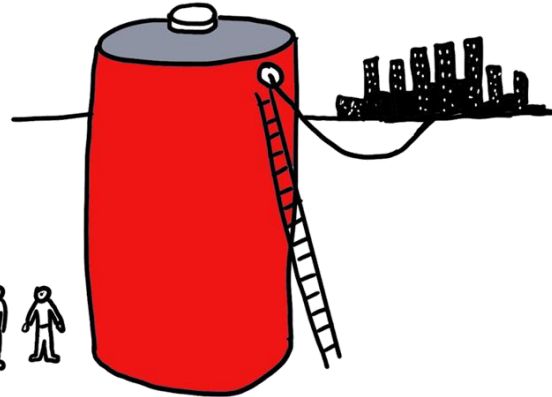
Insulated
Energy generating
Buildings



Electric
Bikes

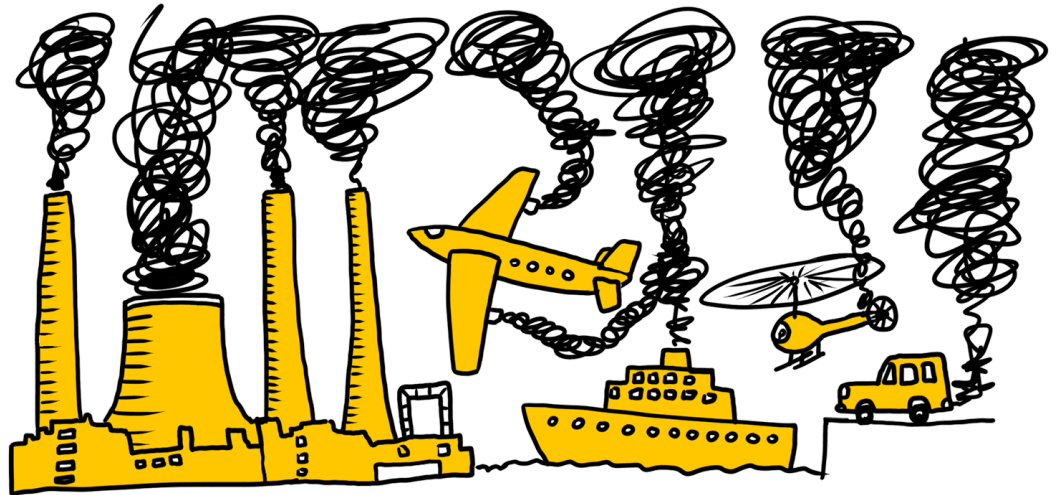


Electric
Driverless
Transport

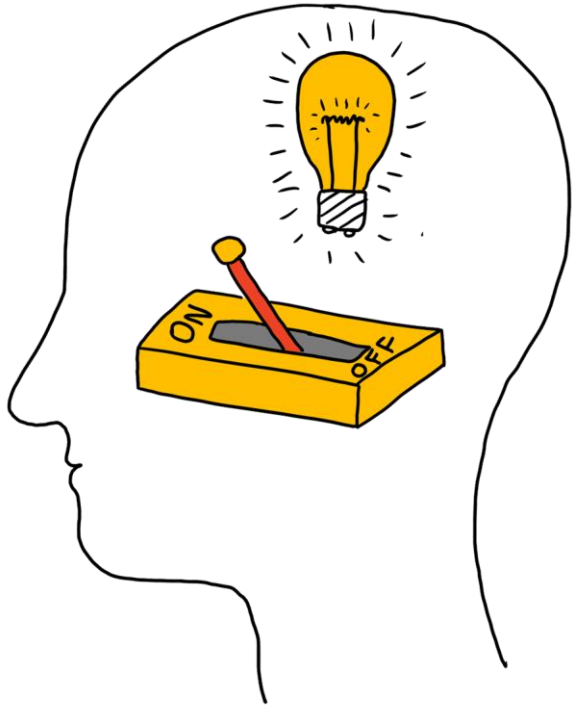


Giant
Batteries
For cities

The energy impact on our environment



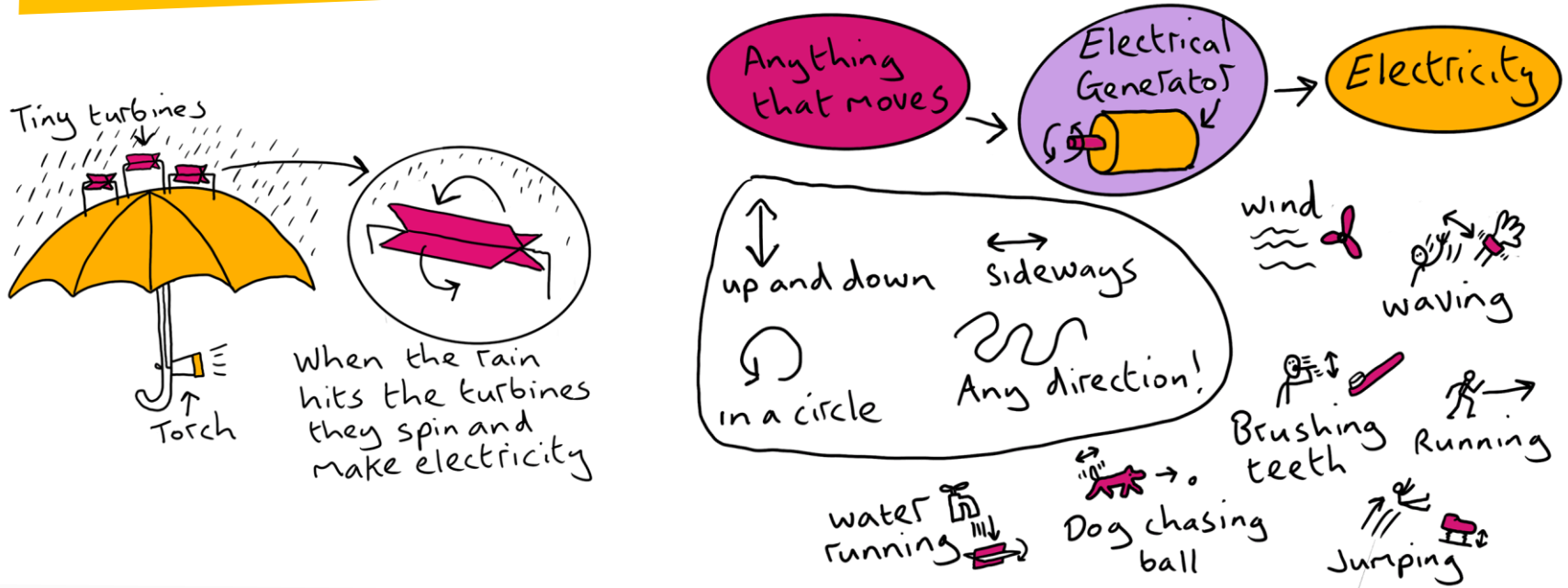
Turn that invention switch on....



Create, save or work smarter...

Time to get your inventive power switched on and get inventing!

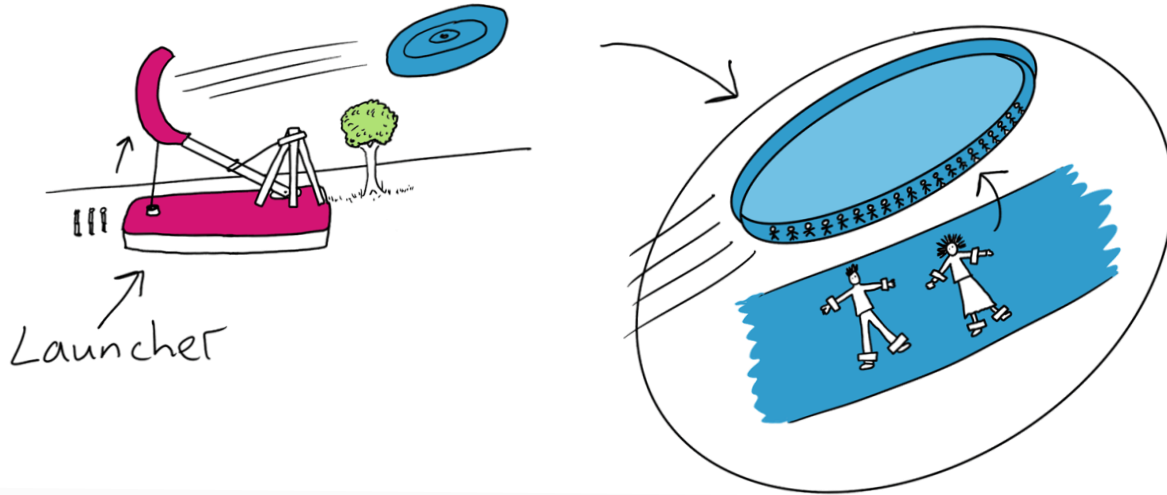
Get moving!



Can you think up an invention that uses movement to generate energy?

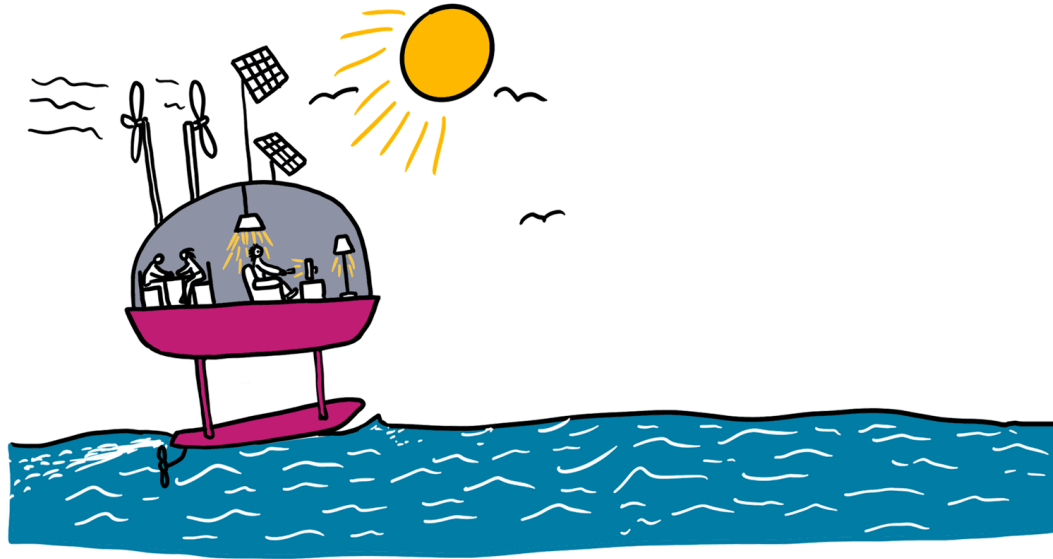
Change your energy behaviour

Giant Frizbee Transport



Think of ideas that could help you save energy every day by changing how you do things!

Use the full power of nature



Renewable energy is the future! Come up with inventions that make the most of renewable energy...

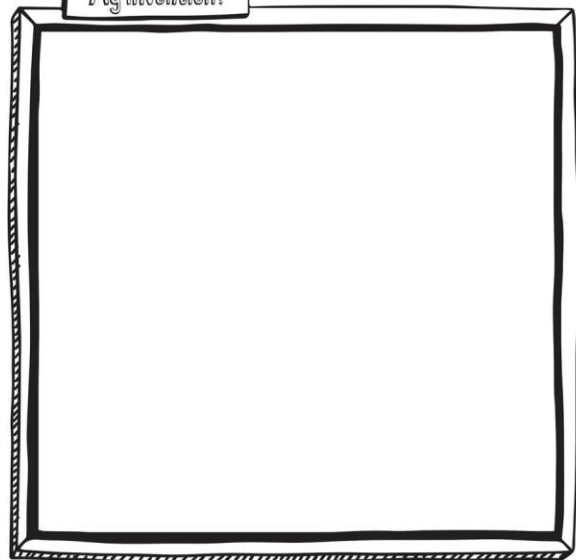
Got an idea tickling your brain?

Draw it in the frame with a black pen, add colour and labels to explain how it works.

Give your invention a name, and tell me how it works!

Your invention could be displayed on our school website!

My invention! Use a black pen, add colour and label the parts.



Little Inventors
Pioneers!

Date Age

First name

School

City

My invention is called

What does it do? How does it work?
What energy does it use?
.....
.....
.....
.....
.....
.....

Upload your idea at pioneers.littleinventors.org to enter the Energy challenge. Who knows, it could be chosen to be made real!

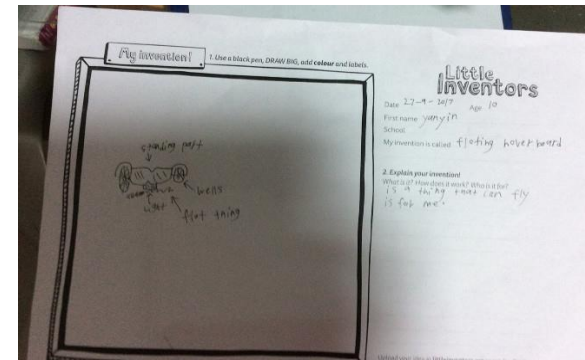
Share your invention with us!

Take a clear picture of your drawing and send it to:
year6.montalbo@durhamlearning.net

We look forward to seeing your amazing inventions!



Great!



Not so good.



With the support of:



**ARTS COUNCIL
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