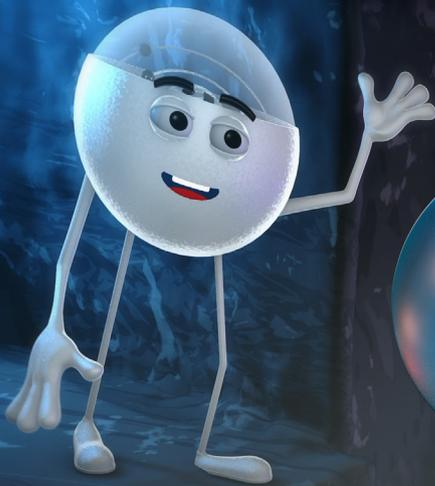


Miss MOLECULE & friends

Created in collaboration with



Episode 1 – Lithium



Key Stage 2 & 3
workbook

Miss MOLECULE
& friends (episode 1)

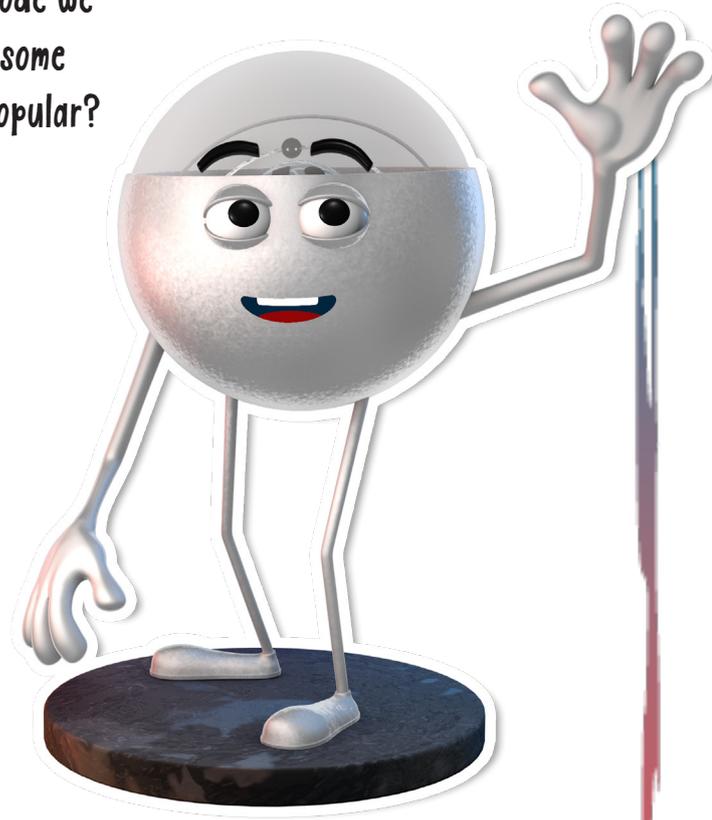
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MECHANICAL
ENGINEERS

 Cornish Lithium

In Miss Molecule & Friends latest episode we meet 'Lithium', but can you remember some facts about Lithium, and why it's so popular?



When was Lithium first created?

Name three characteristics of Lithium

- 1)

- 2)

- 3)

What are the two main sources of Lithium?

- 1)

- 2)

What year was Lithium first discovered in Cornwall?

And, by which Professor?

Why wasn't Lithium used when it was first discovered?

Lots of our technologies now use Lithium, why?

Draw three products that use Lithium batteries

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Lithium is found in a certain type of rock, what is its name?

Can you name the mineral that Lithium is found in?

What's Kaolin's other name?

Kaolin has many uses, can you name some?

What does the term 'permeable rocks' mean?

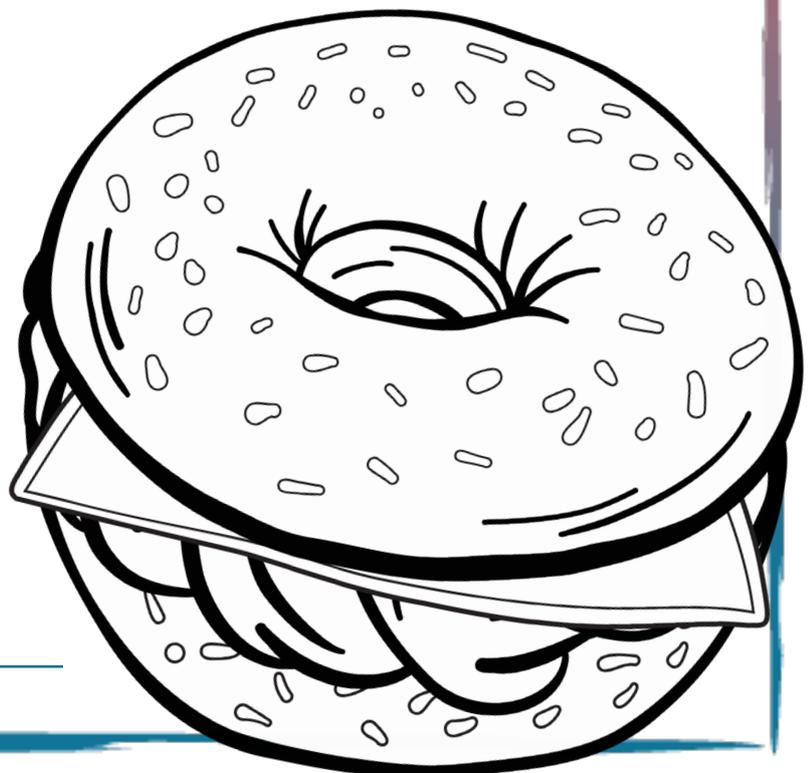
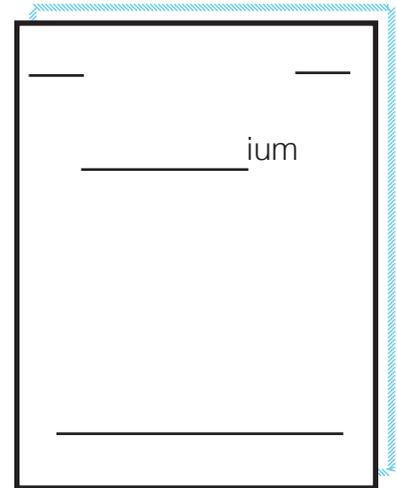
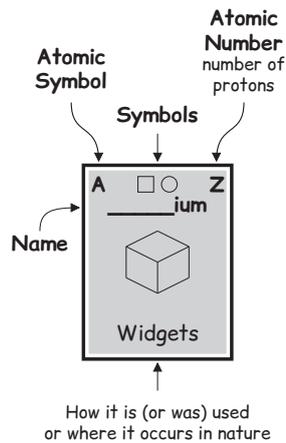
Some of the techniques geologists use to find Lithium in the ground are looking at historical maps and field mapping, can you name any other techniques?

What do we build to access and extract Lithium??

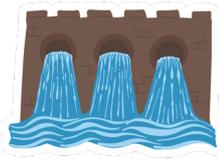
How deep do the holes need to be?
If you were to stretch a tape measure this distance from your school where would it end?

How wide are the holes that Cornish Lithium drill in centimetres? The clue's in the colouring in!

Find Lithium in the Periodic Table (on PPT Slide 4) & re-draw its details in the box below:



Name the energy sources below. Can you identify the fossil fuels?



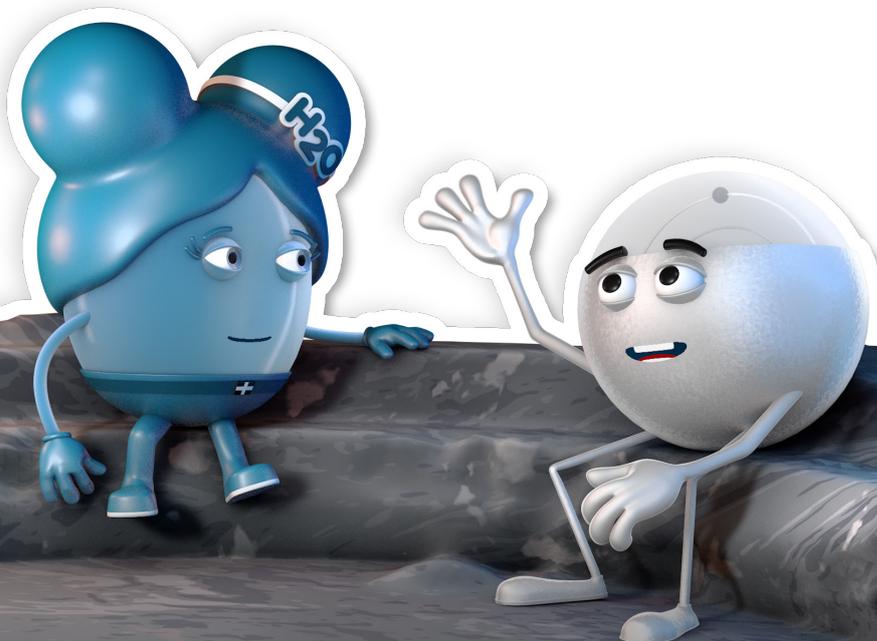
What element is Miss Molecule?

What energy does Miss Molecule help to create?

What is the difference between fossil fuels and renewable energies?

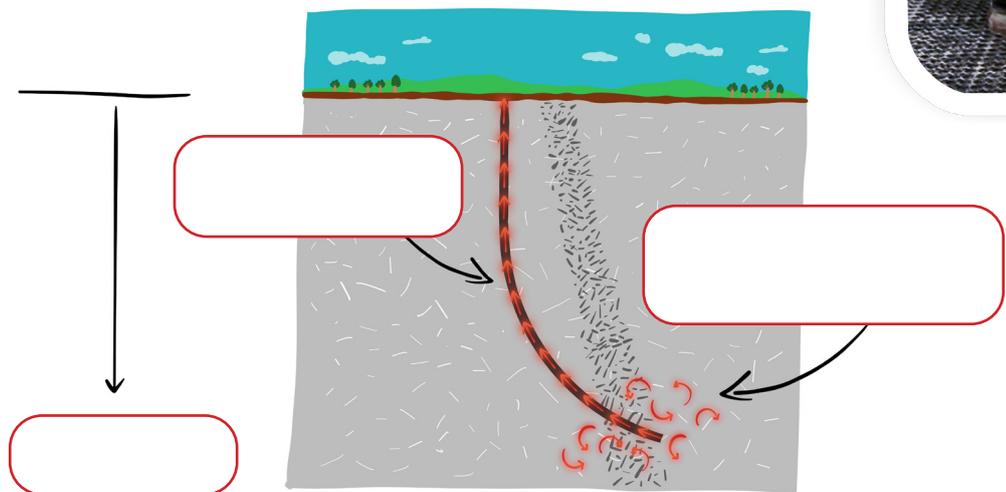
What does CO₂ stand for and why is it harmful to our environment?

How do Miss Molecule and Lithium work together to reduce CO₂ in the UK?



What were the different jobs that Lucy talked about needing for a Lithium Geothermal project? Can you think of any others?

Zoe works with local communities to help them understand Cornish Lithium's work - why do you think this job is important?



Can you label this diagram with these labels:

- Borehole
- 1-2km
- Hot geothermal water

I	R	G	E	O	T	H	E	R	M	A	L	I	Y
C	R	A	S	C	E	E	D	R	O	N	E	S	R
C	E	L	E	C	T	R	I	C	C	A	R	A	E
C	A	R	B	O	N	D	I	O	X	I	D	E	L
B	A	O	L	H	R	L	A	T	E	M	T	A	S
A	O	G	R	A	N	I	T	E	L	U	M	E	A
T	C	C	H	I	N	A	C	L	A	Y	C	H	N
T	P	E	R	M	E	A	B	I	L	I	T	Y	E
E	S	E	L	B	A	W	E	N	E	R	I	S	T
R	L	O	R	M	A	Y	G	E	O	L	O	G	Y
I	T	D	M	L	L	I	T	H	I	U	M	F	W
E	E	K	A	O	L	I	N	W	A	T	E	R	M
S	S	L	E	U	F	L	I	S	S	O	F	E	E
E	Y	S	B	T	L	B	O	R	E	H	O	L	E

Find the keywords from this lesson in the wordsearch!

- | | |
|--------------|----------------|
| Drones | Kaolin |
| Geology | Electric Car |
| Batteries | Borehole |
| Renewables | Water |
| Permeability | Metal |
| Geothermal | Lithium |
| Granite | Carbon Dioxide |
| Fossil Fuels | |
| China Clay | |

Play this puzzle online at: <https://thewordsearch.com/puzzle/666374/>

Watch more of Miss Molecule's episodes online! www.missmolecule.co.uk

