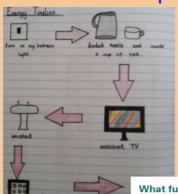
Do you remember doing our Sunny Schools topic last half term? It was part of your home learning. We also looked at how we create energy in DGR that week.

Here are some pictures to remind you.



Problems with power stations



- Courtesy of Sunflower / Brian Litzenberger
- Power stations cause pollution They make the air dirty. Pollution is bad for our planet It can kill plants and animals, can also make people sick.
- But power stations are cleane than they used to be, and then are ways to make them cleans still.
- Gas and oil are running out, and coal will run out in about 200 years! We need to find different ways to make

What fuels are used inside a power station?

Most power stations in the UK make electricity

The fuels they burn are coal, gas or oil.

How is electricity made?



- The fuel is burned to make
- The steam turns a machine called a generator, like the one in this picture.
- The generator makes electricity when it turns very

What is climate change?

Even though the climate of the whole world can change, scientists are worried that over the last hundred years, the <u>average</u> temperature of the world has got <u>much warmer very quickly.</u>
Scientists refer to this as climate change.



So what causes this to happen?

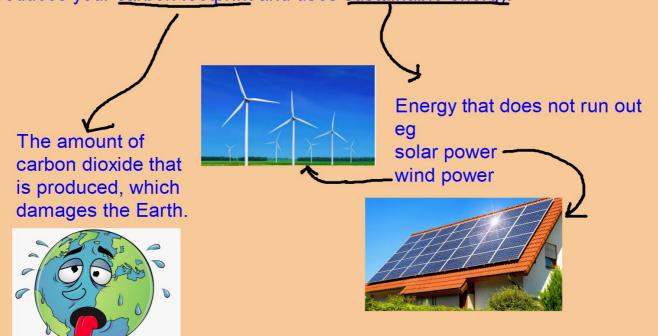
What **effect** does climate change have?

The earth becoming hotter is called global warming.

This week we are doing a Design and Technology project that is linked to our Sunny Schools topic. You have to design and build an eco house.

What do you think an eco house is?

It is house that reduces the amount of damage on the environment. It reduces your <u>carbon footprint</u> and uses <u>sustainable energy</u>.



Step 1

Collecting ideas

Here are some suggestions about what you could include in your eco house.

Solar powered lighting



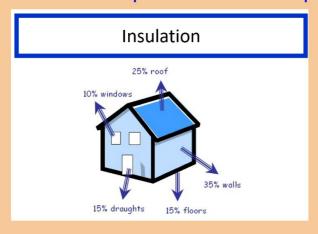
Passive solar lighting

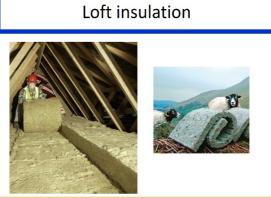


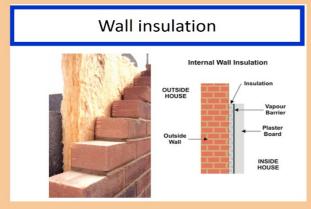
South-facing home making use of natural light.

Lots of windows to let in natural light.

Insulation stops heat from escaping from the house to save energy











Step 2

Use the internet to research eco houses that have been built before.

Here are some teacher examples:









Either sketch some ideas or copy and paste from the internet.