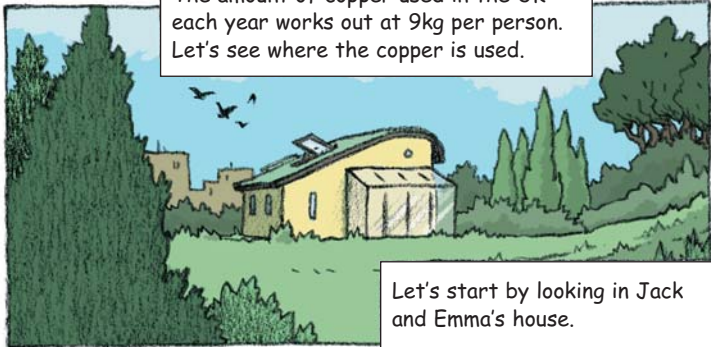


THE FRIENDLY METAL

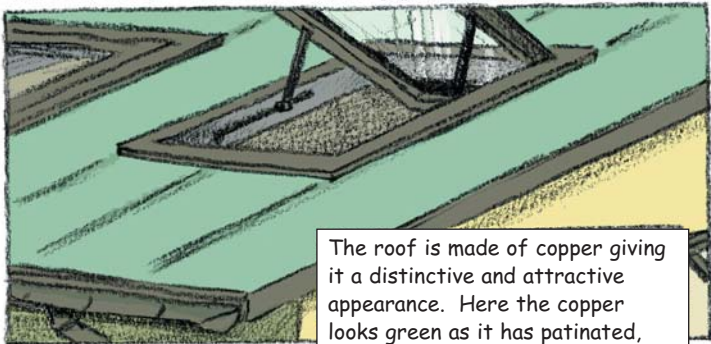
What
does copper do
for me?



The amount of copper used in the UK each year works out at 9kg per person. Let's see where the copper is used.



Let's start by looking in Jack and Emma's house.



The roof is made of copper giving it a distinctive and attractive appearance. Here the copper looks green as it has patinated, forming a protective layer.

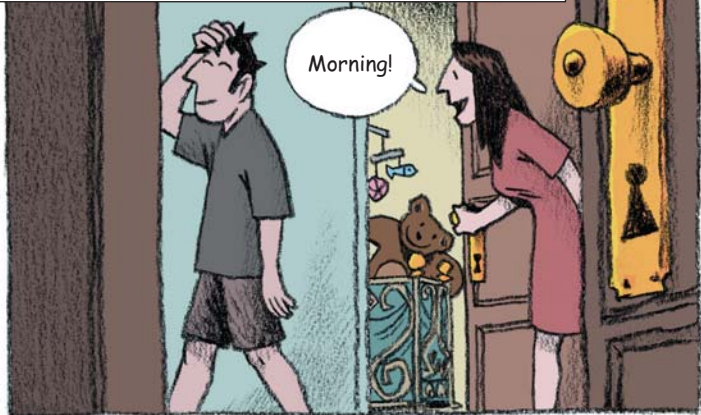
Copper can be easily shaped, lasts a long time and, above all, looks great!





Let's take a look at the other uses of copper in Jack and Emma's lives.

The door handles are made of brass, an alloy of copper and zinc. Brass is strong, hard wearing and a beautiful golden colour too. Germs can't survive on copper or brass so these handles are also hygienic.



Copper pipes deliver clean water for drinking and cooking, and hot water for washing and heating. The taps and shower heads are made of brass but you wouldn't know it because they are usually chrome-plated.



Copper has excellent electrical conductivity and provides lighting and power for Jack and Emma's appliances - the TV, hi-fi, fridge and toaster.



Jack's car contains around 20kg of copper in its wiring and electronics for safety, economy and comfort features.

I'm off!

A high-speed electric train needs 2 tonnes of copper for its engines and 16 tonnes for the overhead wires for each mile of track.

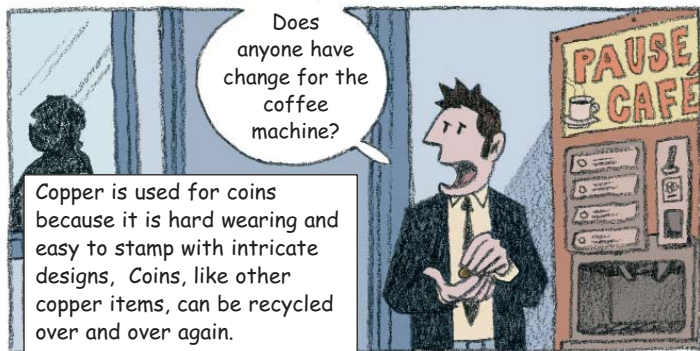
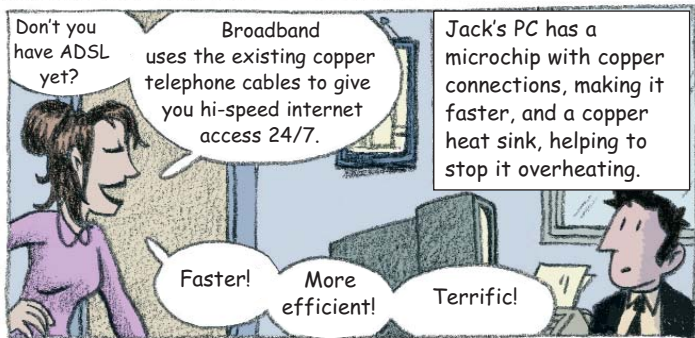
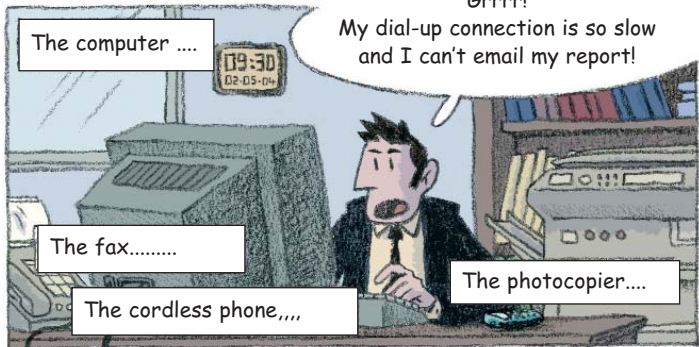
An aeroplane can have over 120 miles of copper cables.

To work!

From Nelson's HMS Victory to modern pleasure yachts, copper has been used on ships' hulls for centuries. It prevents algae and barnacles from growing on the hull and slowing down the ship.

The 4 tonnes of copper in a wind turbine generator help to convert wind energy to electricity.

Nearly there!



That evening

By eating a well-balanced diet, Jack and Emma get their daily intake of copper, essential for health and development, for forming red blood cells and for our immune systems.



Foetuses and babies need a lot of copper too - it's essential for their growth and development

Copper pots and pans are great for cooking, not just because of their attractive appearance and durability, but also thanks to copper's excellent thermal conductivity.



Copper is found all around us in our daily lives. It provides us with comfort, safety and convenience in our homes and work places, all in perfect harmony with the environment.



What shall we watch tonight Emma?

For further information on copper:

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