

**What do we recycle?**

1	glass
2	metal
3	paper
4	plastic

**Metal extraction**

	Reactivity of metals	Method of extraction
1	Less reactive	Displacement using carbon- copper and Iron are extracted by reduction using Carbon.
2	More reactive	Electrolysis- Aluminium is extracted by electrolysis

**Importance of recycling**

1	Using recycled materials to manufacture new products uses less energy, which means <b>less pollution</b> from <b>greenhouse gases</b> and less <b>global warming</b> .
2	recycling helps to reduce greenhouse gases and prevent global warming
3	Recycling reduces the need to extract resources- sooner the Earth's resources are extracted, sooner they will run out
	Recycling reduces the need for extracting (mining, quarrying and logging), refining and processing raw materials all of which create substantial air and water pollution

**Advantages and disadvantages of recycling metals**

	Advantages	disadvantages
1	Recycling helps to limit the amount of metals that must be produced. This will end with less garbage in landfills because it's being reused.	The collection and sorting of domestic materials to be recycled can be expensive, time consuming and require energy.
2	Adds jobs to the economy	Lorries that transport use fuels to cause pollution.
3	Slows the consuming of natural resources	
4	Promotes scientific advancements in recyclable and biodegradable materials.	
5	Process of recycling metals usually creates (much) less pollutants and greenhouse gases than extracting that metal from its ore.	
6	Uses less energy therefore less fossil fuels are being burnt.	

**Key Vocabulary**

1	Natural resources	Materials from the Earth which act as raw materials for making a variety of products.
2	mineral	Naturally occurring metal or metal compounds.
3	ore	Naturally occurring rock containing sufficient minerals for extraction
4	extraction	Separation of a metal from a metal compound
5	recycling	Processing a material so that it can be used again.
6	Carbon footprint	The amount of energy used by each person during their lifetime is known as their carbon footprint.
7	electrolysis	Using electricity to split up a compound into elements.

**Ways to reduce carbon footprint**

1	Walk and cycle instead of driving or use public transport.
2	Take shorter showers
3	Don't buy bottled water, use refillable ones
4	Turn off lights when you leave the room
5	Don't fill the kettle, only boil what you need.
6	Drive a fuel efficient car
7	Don't leave appliances on standby.