

Climate Change Worksheet

Combined Science - Chemistry - Key Stage 4

C9 - Chemistry of the Atmosphere

Miss Fenner



Independent Practice

A potential consequence of climate change is...
This could occur due to...

Another potential consequence of climate change is...
This could occur due to...



Self-assess

A potential consequence of climate change is **rising sea levels**.
This could occur due to **global warming melting the ice caps and putting additional water into the sea**.

A potential consequence of climate change is some **species becoming extinct**.
This could occur due to **global warming destroying some habitats or if a species is not adapted to cope with the warmer climate**.

A potential consequence of climate change is an **increase in diseases like malaria**.
This could occur due to **global warming increasing average global temperature**.
Malaria thrives in warm climates.

A potential consequence of climate change is **water shortages**.
This could occur due to **an increased demand for water as the temperature rises**.



Give a definition for the term carbon footprint.

The total amount of carbon dioxide (and other greenhouse gases) which are emitted.



Would going for a walk add to your carbon footprint?

No



Would charging your mobile phone add to your carbon footprint?

Yes



Independent Practice

State 5 products, activities or resources that might add to a 13 year old's carbon footprint.



Self-assess

- use **electricity** at home for lighting their room
- use a gas-powered **boiler** at home for hot water
- travel to school by **bus** or **car**
- eat **beef** or **rice** (these are farmed using methods that release methane)
- travel abroad on an **aeroplane**



Which has a lower carbon footprint?

Walking

Car



Which has a lower carbon footprint?

Bus

Car



Which has a lower carbon footprint?

Rice

Potatoes



Which has a lower carbon footprint?

Holiday in
Cornwall,
England

Holiday in
Rome,
Italy



Independent Practice True or false

Eating less beef can help reduce a person's carbon footprint.

Walking instead of using a car can increase your carbon footprint because you respire more.

Fitting solar panels to a home can help reduce a carbon footprint by absorbing some of the carbon dioxide the house emits.

Turning off the lights when not in a room helps to lower a person's carbon footprint.



Self-assess

True or **false**

Eating less beef can help reduce a person's carbon footprint.

Walking instead of using a car can increase your carbon footprint because you respire more.

Fitting solar panels to a home can help reduce a carbon footprint by absorbing some of the carbon dioxide the house emits.

Turning off the lights when not in a room helps to lower a person's carbon footprint.



See you next time.

