

# Family Trail

## Our Climate Stories

Look for the 10 **GREEN** labels on the following displays to find more about how we power different vehicles and learn how transport affects the environment and contributes to climate change.



### Wind power

1

#### Clippers

Sailboats like these clippers needed wind to travel around the world.



What would happen on a calm windless day? How would you cross the ocean?

### Horse power

2

#### Horse-drawn tram

There were about 4,000 horses pulling trams on the streets of Glasgow 120 years ago, producing 80 tonnes of dung a day!



How do you think the streets of Glasgow smelt back then?

## Fossil Fuels

- Oil, gas and coal are fossil fuels.
- Fossil fuels are found buried underground and they have to be drilled, dug or fracked out.
- There's only a very limited amount of fossil fuels underground.
- It takes millions of years for fossil fuels to be made.
- Fossil fuels are older than dinosaurs!



### Petrol and diesel power

3

#### Morris Mini Minor

Small cars use less fuel to run, that is why this car was designed.

Could you fit your whole family and bags to go on a holiday in it?



4

#### Albion Venturer bus

Do you travel by bus?  
Can you find differences between this bus and the buses nowadays?



5

## Trolleybus

Trolleybuses use electricity to power their engines like trams, but they have regular tyres like buses.

Can you think of any downside to the use of trolleybuses?



## 'Cunarder' tram No. 1392

6

Look at this display and watch the video. Where did people used to travel in this tram?

How do you travel when you go on a day out?



## Electric power

7

## SeaHawk Satellite

This Glasgow made satellite is powered by high performance spacecraft batteries.

The Satellites monitor the health of our oceans.

What issues do you think threaten our oceans?



Which one of these activities do you think is the **biggest** pollutant in Scotland?



- a) Electricity generation
- b) Farming
- c) Transport
- d) Industry



## Where does electricity come from?

Power plants use fossil fuels or renewable energies to generate electricity.

Which one of these are considered green ways to generate electricity?



Wind



Nuclear



Coal



Hydro



Gas & Oil

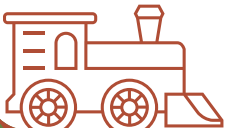


Solar

8

## Highland Railway locomotive No. 103

There used to be two people working in a locomotive, what were their jobs?



## Queen Mary

9

The Queen Mary would need 70 tonnes of meat, 20 tonnes of fish, and 4,000 gallons of milk per trip to feed passengers and crew. Animal produce contributes to the carbon emissions of a ship like this.



## Steam power



## Subway

Most subway systems are powered by electricity, but the original Glasgow subway was powered by a steam engine. It used a grip system and underground cables to move forward. Have a shot at being the gripman by turning the wheel around.

10

Answers:  
 • Biggest pollutant: c) Transport. Source: Carbon Account for Transport No. 10: 2018 Edition. Transport Scotland.  
 • Where does electricity come from? Wind, Hydro and Solar are considered green ways to generate electricity. Although nuclear energy itself is a renewable energy source, the material used in nuclear power plants is not.