Climate Action with Maths

With the rising price of fuel you can combat climate change and save money.

BEDROOM

We all like to get new clothes, but making clothes has a big impact on the environment.

You can mend old clothes and upcycle them to create new styles. You can also swap with your friends and buy second-hand to help our planet and reduce waste

CAR

Cars that run on electricity have no emissions, but the overall benefit to the environment depends on the sources of the electricity used to charge their batteries and how these batteries are made and finally disposed.

A typical family car might emit 112 grams of CO₂ for every kilometre driven. A typical car drives 17,000 kilometres in a year. How much CO₂ would you expect to be released in a year by that car?



LIVING ROOM

Did you know that your game console or your TV on standby mode still uses electricity? Standby mode for a TV can consume up to 20% of the energy consumed by the appliance when it is on. Electricity usage is measured in kilowatt-hours (kWh). If an appliance of 1 kilowatt (1000 watts) power runs for an hour it uses 1 kWh.

If your console on standby uses 1 watt of power, and you keep it in that mode for an average of 16 hours a day, how many kWh would it consume in a year? How much energy would be wasted if everyone in the country also did this?

Save Energy, Save Money

Electrical appliances that generate heat or movement generally use the most electricity.

- Only fill your kettle for what you will need.
 Don't boil a full kettle for one cup of tea!
- Make sure your dishwater and washing machine are full before running.
- Dry clothes on a clothes horse if you can.
- Switch appliances off when you don't need them.
- Investigate how technology can help you.

Check out Sustainable Energy Authority of Ireland for more advice. www.seai.ie

BATHROOM

Water is an extremely precious resource for our lives, and all life on Earth. The less water we use the better for our planet. Choose a quick shower instead of a bath. Avoid running the water while brushing your teeth.

A 1-minute shower uses about 9 litres of water. How many litres of water do you use if you have a 5-minute shower?

KITCHEN

Think twice every time you go to throw something in the bin. Could it be reused? Could it be recycled?
Also think, could we make wiser choices when we go shopping?
Reducing food waste is a climate action that will also save you money.

One kg of food waste could represent 3.6 kg of CO₂ emissions. If a household producing 200 kg of food waste every year reduces that waste to 100kg, how much CO₂ is saved?





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