Mitigation

What can we do?

Reducing your carbon footprint:

Around **70%** of the world's emissions are caused by the top **100** companies. That still leaves **30%** we can do something about! [1]

1 Ask your parents about switching to a green energy provider. These days many providers will promise to buy energy from wind farms or hydroelectric dams. [2]

2 Something you can do yourself is manage your digital footprint. [1]

3 Something that you and your parents could work together on is avoiding car use where possible. [3]

[8]

2) Digital Pollution:

Everything online creates some kind of pollution. Any search or video has to be stored and transferred for you to use. In **2019** Netflix used enough energy to power **40,000** homes! This can be drastically reduced by downloading things you plan to rewatch. [6]
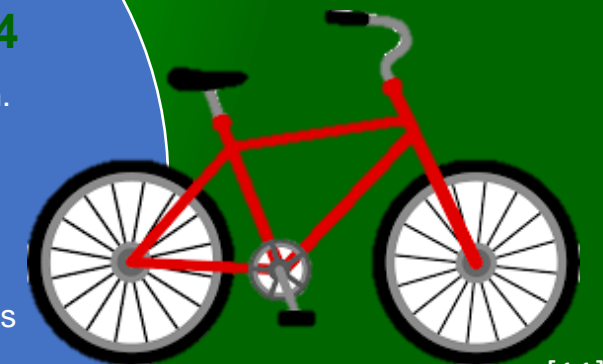
[10]

1) Hydroelectric Dams:

These power stations make use of kinetic and potential energy. The dam allows water to build up behind it where it has potential energy. When the water is released it gains kinetic energy due to gravity pulling it downwards. Finally the kinetic energy it converted to electrical as the water drives the turbine. (Wind farms use the same idea but wind drives the turbines) Scotland currently has **1,500MW** of hydropower capabilities which accounts for **85%** of Britain's total. Now wind and solar power are becoming more and more prominent in the UK but Hydroelectric has a strong history in Scotland [4][5]

[9]

3) Transport:

By far the biggest pollutant used by civilians is transport. Cars cause a **1/4** of a persons yearly **CO2** production. The best thing we can do is walk or cycle where possible. Bicycles particularly make use of the **gyroscopic effect** whereby objects spinning about an axis tend to stay that way. This effect produces a restoring force proportional to the speed meaning the faster the wheels spin the more force pushes the bike upright. [7][11]

[11]

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