

SESSION 2

Can the right balance be found?



What does sustainability mean to you?

carbon footprint climate change organic preservation net-zero energy efficient organic reuse zero-waste eco-friendly carbon offsets recycle circular economy reduce conservation renewable energy deforestation biodegradable

Which crop has the largest carbon footprint?

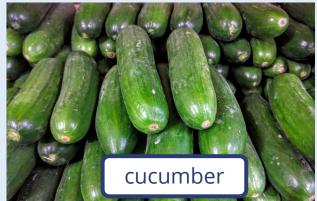




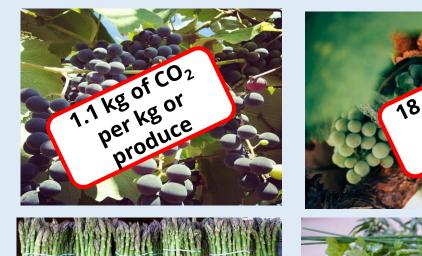




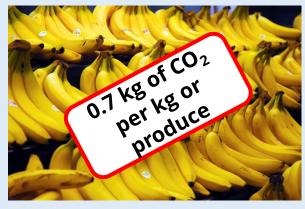




Compare the mass of CO₂ release for each kg of produce.

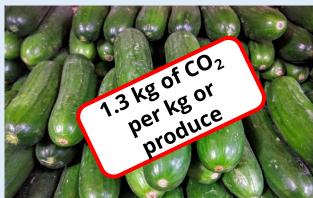












Why do you think some crops have higher carbon emissions?

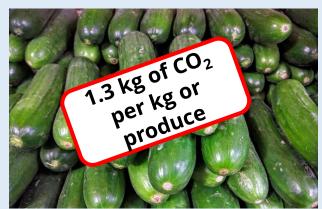


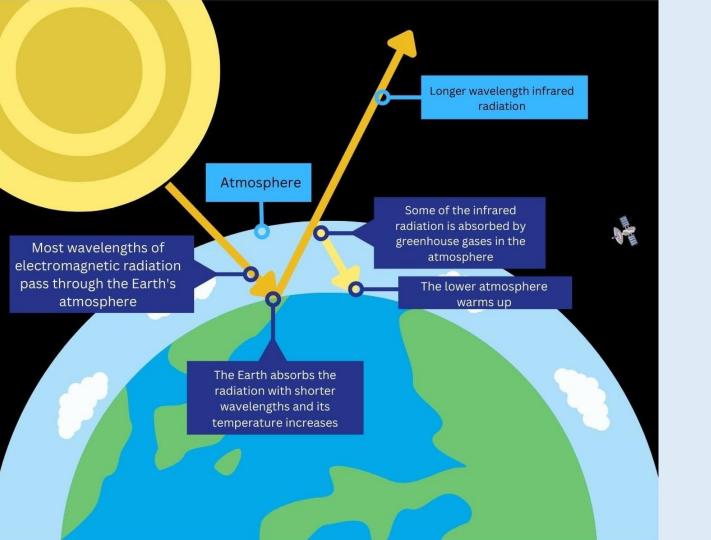






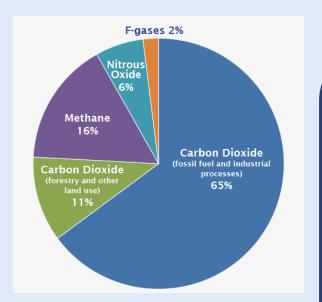






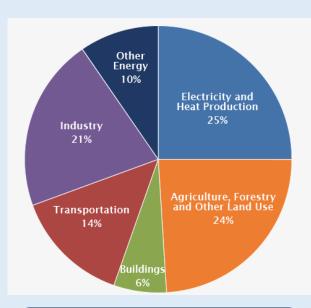
What do you already know about the impact of carbon emissions on our planet?

What are the greenhouse gases and where do they come from?



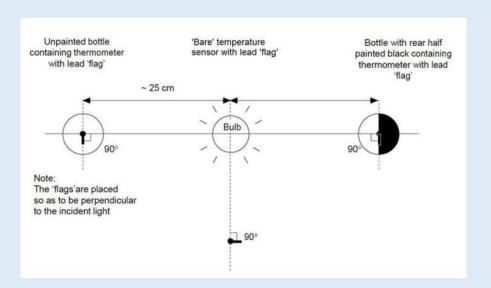
Global greenhouse gas emissions by gas.

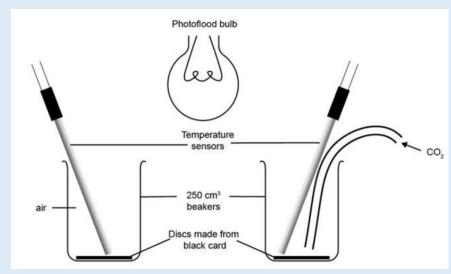
The Intergovernmental Panel on Climate **Change Special Report** on Climate Change and Land (2019) estimates agriculture is directly responsible for up to 8.5% of all greenhouse gas emissions.



Global greenhouse gas emissions from different sectors.

Why are carbon emissions a problem for the environment?





Experiment 1

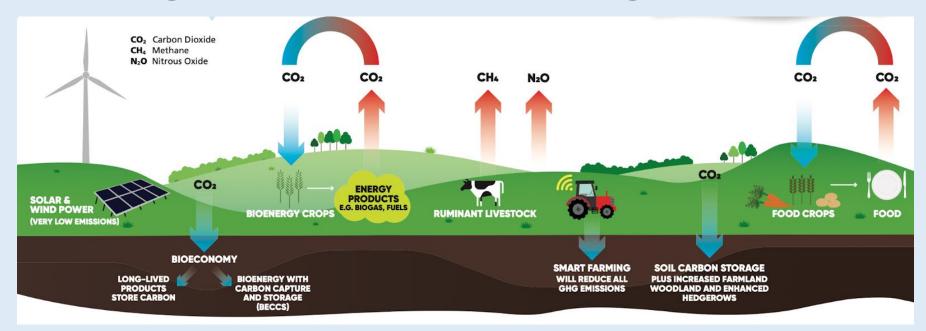
Experiment 2



Finding a balance

Work collaboratively to sort the cards into activities on farmland that release greenhouse gases into the atmosphere and activities that remove greenhouse gases from the atmosphere.

Finding a balance in the farming environment



AGRICULTURE

10% of UK Greenhouse Gas Emissions Circular balanced flows of greenhouse gases





