

## Agriculture & Climate Change- teachers guide

### SLIDE 1

- Introduction
- Explain what's going to happen (talk about agriculture & how it's involved in climate change)
- Explain why they're learning about it (climate education is vital and the school is part of the ACE award run by the Regional Youth Climate Assembly & Calderdale Youth Council)
- Information about joining those groups is at the end

### SLIDE 2

- Introduction to farming in the UK
- Talk through bullet points
- Photo on the side is a graph of farming land in danger of flooding
- 'Floodplain' is an area with a high risk of flooding

### SLIDE 3

- How agriculture affects the climate
- 4th biggest emitter in the UK
- No defined solution. Energy we know we need to transition to renewable, transport to electric or biofuels. Agriculture still needs to be focused on.
- Methane is actually a worse greenhouse gas than carbon dioxide, there's just less of it.
- 1,136 thousand hectares of farmland in Yorkshire & Humber
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### SLIDE 4

- Agriculture is unique in it both effects and is affected by climate change
- Floods in the UK but in places like South Africa they get droughts
- Jobs at risk. Not only from flooding but as we transition to net zero farmers might be left behind
- Changes in climate can mean new bacteria can live and kill crops

### SLIDE 5

- RYCA= Regional Youth Climate Assembly (info at the end)
- They wrote a manifesto about what they want to achieve
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#### SLIDE 6

- Solutions
- Open it up to the class
- There are post it notes

#### SLIDE 7

- Solutions
- More efficient farming. The way people farm is incredibly important, how they use water/ fertiliser/ land. It means meat from Peru could be better for the planet than local meat. Which is why we need to increase farming efficient for UK farms
- Diversify to sustainable crops. Some crops have great applications for manufacturing/ biofuels/ food.
- Reduce meat and dairy. This is a personal/ well known one. Oxford Uni says it can decrease your carbon footprint from food by over 60%
- Introducing hedgerows. Increases biodiversity

#### SLIDE 8

- Contact details for RYCA & Youth Council
- Please stress we are also welcoming members and there are also many opportunities outside of climate change as well