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| Session title         | Climate champions                                                                                                                                                                                                                                                                                                                                                            |  |
| Key Q                 | How can we help reduce climate change?                                                                                                                                                                                                                                                                                                                                       |                                                                                     |
| Session description   | Take part in games, get stuck into nature, and use your creative skills to learn about climate change. This engaging and uplifting session introduces students to how we can fight climate change both in terms of reducing it but also coping with it. Students get hands on with the wetland and get to know how they are superpowers in the fight against climate change. |                                                                                     |
| Key Stage suitability | KS3                                                                                                                                                                                                                                                                                                                                                                          |                                                                                     |
| Duration              | 1 hour                                                                                                                                                                                                                                                                                                                                                                       |                                                                                     |

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| Curriculum links  | <b>KS3 Science</b> <ul style="list-style-type: none"> <li>The dependence of almost all life on Earth on the ability of photosynthetic organisms, such as plants and algae, to use sunlight in photosynthesis to build organic molecules that are an essential energy store and to maintain levels of oxygen and carbon dioxide in the atmosphere.</li> <li>The carbon cycle</li> <li>The composition of the atmosphere</li> <li>The production of carbon dioxide by human activity and the impact on climate.</li> </ul>                                                                                                                                                                                       |                                  |                                      |
|                   | <b>KS3 Geography</b> <ul style="list-style-type: none"> <li>Understand how human and physical processes interact to influence, and change landscapes, environments and the climate; and how human activity relies on effective functioning of natural systems.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                  |                                      |
| Learning outcomes | <p>All learners will have the opportunity to:</p> <ul style="list-style-type: none"> <li>Experience nature directly through sight, sound, smell, feel</li> <li>Learn through the natural environment (nature is the resource not just the topic)</li> <li>Learn how GHGs cause Climate Change (in terms of too many being in the atmosphere and trapping in heat)</li> </ul> <p><b>Assessed Learning Outcomes (ALO)</b></p> <ol style="list-style-type: none"> <li>Learn and apply knowledge of how to reduce climate change</li> <li>Learn and apply knowledge of how to mitigate climate change</li> <li>Name an emitter of GHGs</li> <li>Know that release of too many GHGs cause climate change</li> </ol> |                                  |                                      |
| Key vocabulary    | Climate change<br>Atmosphere<br>Global Warming                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Greenhouse gases<br>Carbon store | Wetland<br>Carbon Dioxide<br>Methane |

| Session Outline                                                                                                                                                | Time    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Introduction                                                                                                                                                   | 5 mins  |
| Students are given an overview of the session and introduced to the key question 'How can we help reduce climate change?'                                      |         |
| Activity 1: GHG coat model                                                                                                                                     | 10 mins |
| Students learn what climate change is and what causes it through an interactive model using one student who is the Earth and coats as greenhouse gases (GHGs). |         |
| Activity 2: Wetlands and Climate Change                                                                                                                        | 10 mins |

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| Students learn how wetlands help stop climate change and help us cope with climate change by getting hands on with the secret power that wetlands have – MUD!       |         |
| Activity 3: Model climate resilient village building                                                                                                                | 20 mins |
| Students take on different roles in building a model climate resilient village out of natural materials they find in the wetland. Their mission is get to Net Zero. |         |
| Activity 4: Presenting their climate resilient villages                                                                                                             | 10 mins |
| Each group gets to share why their village helps fight and cope with climate change and find out if they've reached 'Net Zero'.                                     |         |
| Plenary                                                                                                                                                             | 5 mins  |
| Students share what they've learnt and hear some final messages on how they can help stop climate change.                                                           |         |