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| Session title         | Brilliant Bird Adaptations                                                                                                                                                                                                                                        |  |
| Key Question          | How are wetland birds adapted to their habitat?                                                                                                                                                                                                                   |                                                                                     |
| Session description   | Observe ducks, geese and swans to discover how they have evolved specific features to suit a wetland environment. Investigate adaptations from webbed feet to oiled feathers. Which features will you spot and how do they help birds to survive in this habitat? |                                                                                     |
| Key Stage suitability | KS2                                                                                                                                                                                                                                                               |                                                                                     |
| Duration              | 1 or 2 hours                                                                                                                                                                                                                                                      |                                                                                     |

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| Curriculum links  | <p>Curriculum for Wales</p> <p>Science and Technology</p> <p>Being curious and searching for answers is essential to understanding and predicting phenomena</p> <p>Progression step 1</p> <p>I can explore the environment, make observations and communicate my ideas.</p> <p>Progression step 2</p> <p>I can explore relationships between living things, their habitats and their life cycles.</p> <p>The world around us is full of living things which depend on each other for survival</p> <p>Progression step 1</p> <p>I can recognise that plants and animals are living things which grow.</p> <p>Progression step 2</p> <p>I can explore relationships between living things, their habitats and their life cycles.</p> <p>Progression step 3</p> <p>I can describe the features of organisms and recognise how they allow them to live, grow and reproduce for survival in their environment.</p> <p>I can explain the role of different organs and systems that enable plants and animals to live and grow.</p> <p>Humanities</p> <p>Our natural world is diverse and dynamic, influenced by processes and human actions</p> <p>Progression step 1</p> <p>I have first-hand experience of the natural world and am beginning to recognise places which are familiar to me.</p> <p>Progression step 3</p> <p>I can give simple descriptions of the processes that lead to change in the natural world.</p> <p>Informed, self-aware citizens engage with the challenges and opportunities that face humanity, and are able to take considered and ethical action</p> <p>Progression step 2</p> <p>I am beginning to appreciate and care for living things and my own environment.</p> |                                                                            |
| Learning outcomes | Most learners                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | More able learners                                                         |
|                   | <p>will be able to describe how birds behave to help them to survive in wetlands.</p> <p>will be confident using binoculars to effectively watch birds.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <p>will be able to identify up to three species of wild British birds.</p> |

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|                | <p>will be able to describe the differences between how different types of birds find food.</p> <p>will be able to name at least one physical adaptation that helps wetland birds to survive.</p> |                                                                                                                                                                                                                   |
| Key vocabulary | <p>Survive</p> <p>Healthy</p> <p>Behaviour</p> <p>Migration</p> <p>Nest</p> <p>Habitat</p> <p>Pecking</p>                                                                                         | <p>Filter-feeding</p> <p>Food chain</p> <p>Predator</p> <p>Prey</p> <p>Preening</p> <p>Webbed feet</p> <p>Waterproof</p> <p>Lamellae</p> <p>Herbivore</p> <p>Omnivore</p> <p>Roost</p> <p>Flock</p> <p>Diving</p> |

| Session Outline                                                                                                                                     | Time                                                         |
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| Introduction                                                                                                                                        | 5 mins                                                       |
| Learners are introduced to the centre, staff and volunteers running the session and the key question, explaining what we will be focusing on today. |                                                              |
| Section 1: How are wetland birds adapted to their habitat?                                                                                          | 10 mins                                                      |
| Discussion Stage – Learners offer suggestions of how birds have adapted to living in a wetland.                                                     |                                                              |
| Section 2: Exploration                                                                                                                              | 15 mins                                                      |
| Learners explore the different body parts, observing the adaptations.                                                                               | <i>This section will be extended during a 2-hour session</i> |
| Section 3: Collection Walk                                                                                                                          | 15 mins                                                      |
| Learners observe the feeding habits and the behaviours of our collection birds, comparing the adaptations between species.                          | <i>This section will be extended during a 2-hour session</i> |
| Section 4: Observatory                                                                                                                              | 10 mins                                                      |
| Learners visit our observatory hide to observe a wetland habitat.                                                                                   | <i>This section will be extended during a 2-hour session</i> |
| Plenary                                                                                                                                             | 5 mins                                                       |
| Learners will review what they have learnt and ask any further questions.                                                                           |                                                              |