

Session title	Guided Bird Walk	
Key Question	What will we discover on a guided tour of Llanelli Wetland Centre?	
Session description	Study the threatened species that the WWT are protecting around the globe. Discover what threats they face and what the organisation is doing to mitigate these threats. Learn about the importance of our breeding programme and the successes we've had across the organisation.	
Key Stage suitability	KS3+	
Duration	1 hour	

Curriculum links	Curriculum for Wales Science and Technology Being curious and searching for answers is essential to understanding and predicting phenomena Progression step 4 - I can explain how the impact of our actions contribute to the changes in the environment and biodiversity. Progression step 5 - I can evaluate contemporary issues that affect the planet and biodiversity. The world around us is full of living things which depend on each other for survival Progression step 4 - I can describe the interdependence of organisms in ecosystems and explain how this affects their chances of survival. - I can explain how reproduction, mutations and the environment can lead to variation and adaptations within organisms which can affect their chances of survival. - I can explain the threats to the development and health of organisms and describe how the effects of these are reduced by natural defences, preventions and treatments. Progression step 5 - I can explain how variation of organisms within a changing environment leads to natural selection which drives evolution. - I can explain how biological processes and control mechanisms enable organisms to function, develop, reproduce and survive. - I can evaluate the factors which affect the development and health of organisms. - I can explain how prevention and treatment can support natural defence systems and enhance the health of organisms. Humanities Our natural world is diverse and dynamic, influenced by processes and human actions Progression step 4 - I can understand and explain how human actions affect the physical processes that shape places, spaces, environments and landforms over time. - I can understand and explain the range of factors that affect the interrelationships between humans and physical processes. - I can describe and explain the distinctive features of places, spaces and landscapes at a variety of scales, in my locality and in Wales, as well as in the wider world, along with the processes at work in them. - I can describe and explain why spatial patterns of places, environments and landforms may change over time in my locality and in Wales, as well as in the wider world. - I can describe and explain how places, spaces, environments and landforms have changed over time and outline the processes that cause these changes in the natural world.
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	Progression step 5 ▪ I can explain and analyse the wide range of interrelationships and interdependencies between the human actions and physical processes that shape places, spaces, environments and landforms over time. ▪ I can give comprehensive explanations for the distinctive features of places, spaces and landscapes at a variety of scales in my locality and in Wales, as well as in the wider world, along with the processes at work in them. ▪ I can give comprehensive explanations for the spatial patterns of places, environments and landforms at a range of scales and predict how patterns and trends may continue or change in the future in my locality and in Wales, as well as in the wider world. ▪ I can give comprehensive explanations and analysis of how and why places, spaces, environments and landforms have changed over time. Informed, self-aware citizens engage with the challenges and opportunities that face humanity, and are able to take considered and ethical action Progression step 4 ▪ I can analyse and explain the impact of decisions made by individuals, local, national or global governance, and non-governmental organisations on people, their rights and the environment. Progression step 5 ▪ I can explain the importance of the role played by groups, governments, businesses and non-governmental organisations in the creation of a sustainable future, and how they impact on people and their rights and on the environment.		
Learning outcomes	Most learners	More able learners	
	will be able to name some reasons why these birds are threatened will be able to name one species for each feeding technique will be able describe several ways in which these birds have adapted to living in a wetland will be able to explain why the mating display is important	will be able describe the threats a specific species faces in the wild will be able to explain what happens to birds' feathers after the mating season is over	
Key vocabulary	Habitat Feeding Dabbling Diving Up-ending Long necks Beaks	Nesting Ground nesting Trees Survive Healthy Behaviour	Pecking Filter-feeding Preening Webbed feet Waterproof Migration

Session Outline	Time
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.	
Activity 1: Top Pond	10 mins
Learners feed the birds on the top pond observing the different feeding techniques. Learners discover the threats that some of these birds face in the wild and the connection between one species and some items they might find in their home.	
Activity 2: Smew pen	15 mins

Learners are introduced to different species that call the smew pen their home. Learners find out about the migration of the Bewick's swan and how they and the ducks have adapted to living in a wetland habitat.	
Activity 3: Where do they nest?	5 mins
Learners are shown different nest boxes around the collection that cater for different species, looking in particular at our tower nest box. Did they know that some ducks nest inside trees?	
Activity 4: Cranes and flamingos	15 mins
Learners visit our beautiful crane and our fabulous flamingos to learn more about the species and the interesting dances they do to attract a mate.	
Plenary	10 mins
Learners meet our 'nenes' (Hawaiian Geese) and learn why they are such an important species to WWT. Learners review what they have learnt and ask any further questions.	