

Session title	The Migration Challenge	
Key Question	What challenges do migratory birds face and what can we do to help them?	
Session Description	Explore the wonders of bird migration. Which migratory birds do we find at Llanelli Wetland Centre? Where have they come from and what seasonal changes have prompted them to travel all this way? How do the habitats here compare to those they have come from? What threats do they face on their journey and what can we do to help them?	
Key Stage suitability	KS2	
Duration	1 or 2 hours	

Curriculum links	Curriculum for Wales Science and Technology Being curious and searching for answers is essential to understanding and predicting phenomena Progression step 1 - I can explore the environment, make observations and communicate my ideas. Progression step 2 - I can explore relationships between living things, their habitats and their life cycles. Progression step 3 - I can understand how my actions and the actions of others impact on the environment and living things. The world around us is full of living things which depend on each other for survival Progression step 2 - I can explore relationships between living things, their habitats and their life cycles. Progression step 3 - I can describe how living things compete for specific resources and depend on each other for survival. - I can describe the features of organisms and recognise how they allow them to live, grow and reproduce for survival in their environment. - I can explain the role of different organs and systems that enable plants and animals to live and grow. - I can identify the threats to the development and health of organisms and recognise some natural defences, preventions and treatments. Humanities Our natural world is diverse and dynamic, influenced by processes and human actions Progression step 1 - I have first-hand experience of the natural world and am beginning to recognise places which are familiar to me. Progression step 2 - I can describe how people and the natural world may impact on each other. - I can recognise the distinct physical features of places, environments and landscapes in my locality and in Wales, as well as in the wider world. - I can describe how and where some places and environments are similar, and others are different. - I can recognise the distinctive features of places, environments and landforms, and how these may change. Progression step 3 - I can describe and give simple explanations about the impact of human actions on the natural world in the past and present. - I can describe and give simple explanations about the impact that physical processes have had on people, places and landscapes in the past and present.
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	- I can give simple descriptions of how places, spaces, environments and landforms have changed over time. - I can give simple descriptions of the processes that lead to change in the natural world. Informed, self-aware citizens engage with the challenges and opportunities that face humanity, and are able to take considered and ethical action Progression step 2 - I am beginning to appreciate and care for living things and my own environment. - I can recognise that my actions and those of others impact upon communities and the environment. Progression step 3 - I can understand the consequences of my actions and the actions of others, and how these affect local, national and global issues. - I can understand that there are a range of factors that influence people's behaviour, actions and decisions.		
Learning outcomes	Most learners	More able learners	
	will identify five migratory species. will understand the basic needs of animals for survival. will give two examples of what they can do to help migratory birds.	will Identify two areas of impact that humans can have on the environment (that can, in turn, affect migratory birds). will understand how changes in the environment can leave migratory species less well adapted and can affect their survival.	
Key vocabulary	Migration Threatened Predated Food	Breeding Shooting Water Shelter	Wingspan Weight Satellite tagging Habitat

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: Where in the world?	10 mins
Learners will learn the meaning of migration and then using a large floor map will map out the migratory routes of three geese.	
Activity 2: What challenges do migratory birds face and what can we do to help them?	15 mins
Learners will measure, weigh and tag model geese and begin to understand what challenges these species face.	
Activity 3: Collection walk	15 mins
Learners meet and feed several geese and swan species and learn about the challenges that they face and the work that WWT is doing to help these species.	This section can be extended during a 2hr session
Activity 4: Visiting a hide	10 mins
Learners will visit at least one hide and observe the habitat and how the birds are using it e.g. to feed, rest etc.	This section can be extended

	during a 2hr session
Plenary	5 mins
Learners will review what they have learnt and ask any further questions.	