


Session title	The water cycle, wetlands and me	
Key Q	What happens to my water?	
Session description	Explore how a range of human and physical processes interact to influence the water cycle. What role can wetlands play in sustainable flood management and natural waste water treatment?	
Key Stage Suitability	KS3	
Duration	1 hour	

Curriculum links	<p>KS3 Science</p> <p>Year 7-9</p> <ul style="list-style-type: none"> ▪ Relationships in an ecosystem <ul style="list-style-type: none"> ○ The interdependence of organisms in an ecosystem, including food webs and insect pollinated crops ○ How organisms affect, and are affected by, their environment, including the accumulation of toxic materials. <p>KS3 Geography</p> <ul style="list-style-type: none"> ▪ Human and physical geography <ul style="list-style-type: none"> ○ 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 		
Learning outcomes	All learners	More able learners	
	<ul style="list-style-type: none"> ▪ Will be able to recognise that humans can affect the natural water cycle. ▪ Will be able to recognise that unsustainable land use can disrupt the water cycle. 	<ul style="list-style-type: none"> ▪ Will be able to describe how they might use the properties of different surfaces to mitigate flooding ▪ Will be able to recognise different techniques to mitigate flooding ▪ Will be able to describe how wetlands can help to reduce flooding. 	
Key vocabulary	<ul style="list-style-type: none"> ▪ Evaporation ▪ Condensation ▪ Precipitation ▪ Estuary ▪ SuDS 	<ul style="list-style-type: none"> ▪ Absorption ▪ Run-off ▪ Surface water ▪ Water conservation 	<ul style="list-style-type: none"> ▪ Saturation ▪ Transpiration ▪ Infiltration ▪ Collection

Session Outline	Time
Introduction	5 mins
Learners think about why water is so important and what we use it for.	
Section 1: The water cycle	5 mins
Learners explore the water cycle using appropriate vocabulary.	
Section 2: Identifying the problem	10 mins
Learners investigate what is causing flooding in an area.	
Section 3: Investigating solutions	20 mins

Learners explore possible solutions by looking at absorption rates of different surfaces.	
Section 4: Analysis	5 mins
Groups feedback on their findings.	
Section 5: Problem solving	10 mins
Groups come up with solutions to the flooding problem using the information they have gathered from their investigation.	
Plenary	5 mins
Groups present their solutions.	