

Secondary Content Map

The NEW WAVE education programme for secondary schools offers an in-school assembly/tutor activity designed to spark discussions around wastewater and sustainable practices for safeguarding our wastewater network. This programme additionally offers free tours of Southern Water's Wastewater Treatment Works, complemented by workshops on sustainable drainage systems. All activities are aligned with the National Curriculum, covering key science and geography objectives.

	TOUR & WORKSHOP		WASTEWATER QUEST
	BEYOND THE DRAIN TOUR	SLOW THE FLOW WORKSHOP	
Age group	KS3	KS3	KS3 & 4
Time required	60 minutes	60 minutes	20 minutes
Summary of opportunities	A cross-curricular experience where students embark on a tour of one of Southern Water's wastewater treatment centres, discovering the scientific processes involved in cleaning wastewater and the importance of returning 'nature clean' water back into the local environment. They will meet Southern Water employees along the way, learning about their role in protecting the water network.	Students explore sustainable drainage systems, understanding their critical role in slowing the flow of rainwater into the wastewater network. They investigate various materials to evaluate their permeability and determine the most sustainable option for driveway surfaces.	Students join two young presenters on a virtual tour of a wastewater treatment works, engaging with quest-style quiz questions that can be used to ignite discussions around sustainability and wastewater. Can be used in assemblies, form times or as an engaging and interactive knowledge check activity for use in science lessons.
Topics	Wastewater, natural resources, pure & impure substances	Wastewater, natural resources, working scientifically	Sustainability, natural resources, wastewater
National Curriculum links	<p>Science: Learn about simple techniques for separating mixtures: filtration.</p> <p>Geography: Understand the use of natural resources; Understand how human activity relies on effective functioning of natural systems.</p>	<p>Science: Make predictions using scientific knowledge and understanding; Select, plan and carry out the most appropriate types of scientific enquiries to test predictions, including identifying independent, dependent and control variables, where appropriate; Present reasoned explanations, including explaining data in relation to predictions and hypotheses.</p> <p>Geography: Understand the use of natural resources; Understand how human activity relies on effective functioning of natural systems.</p>	<p>Science: KS4: Learn about Earth's water resources and obtaining potable water; Learn about separation techniques for mixtures of substances: filtration.</p> <p>Science: Learn about simple techniques for separating mixtures: filtration.</p> <p>Geography: Understand the use of natural resources; Understand how human activity relies on effective functioning of natural systems.</p>
Resources provided	Teacher letters, parent letters, in-person worksheets	Teacher letters, parent letters, in-person worksheets	Teacher guide, presentation, interactive video, scoring sheet