

Key Stage 3 Overview: Science Year 7

	Module 1	Module 2	Module 3	Module 4	Module 5	Module 6
Year 7	<p>University Challenge: I'm an engineer get me in here.</p> <p>Context in school: Students explore what we mean by the scientific method and produce a science project to show parents.</p> <p>Skills: Basic practical skills Following and making methods/instructions What variables are How to draw a scientific diagram How to write a conclusion How to use a microscope How to determine the pH of a liquid Learning what solutions are</p>	<p>University challenge: F1 in schools challenge</p> <p>Context in schools: Students study the aerodynamics of an F1 car</p> <p>Skills: How to test an hypothesis What forces are how we use forces the different types of energy the conservation of energy how to determine the speed of an object how to use a wind tunnel the differences in the states of matter</p>	<p>University challenge: Citizens of London</p> <p>Context in school: Students study the habitats in and around the school/London in order to explain how it has changed and how it has changing. With the possible outcome of a market stall selling Eco goods</p> <p>Skills: Students learn how to estimate population sizes. How to identify predator and prey How humans have changed habitats What pollution is and what it does How we can reduce our impact on the environment</p>	<p>University challenge: STEM Inventions during the war</p> <p>Context: Students stud how chemicals changed the course of war from gunpowder to gas to bombs</p> <p>Skills Students learn that chemicals have different properties Students learn about the reactivity series Students learn about displacement Students learn about atoms and particles Students learn about chemical reactions</p>	<p>University challenge: Designing and making for our community</p> <p>Context: Students study different materials and how they are made in order to design furniture for the academy</p> <p>Skills: Students learn about how different materials are made and analyse their properties How to make moments The use of pressure</p>	<p>University challenge: Community:</p> <p>Context: Students study food and water and the need for healthcare in communities</p> <p>Skills: Students look at the need for a good diet, including aspects of nutrition and digestion. The different types of pathogens and how we can prevent them How we can improve healthcare in different communities How to determine if someone is fit and healthy</p>