



ASHLYNS SCHOOL

Ashlyns School

The Challenge Curriculum

Science



Reading task



Research task



Watching task



Student-led task



Listening task



Creative task



Writing task



Trip/visit task

Science – Years 7, 8 and 9

 Reading	<p>Learn about important first aid steps from the Red Cross: British Red Cross</p> <p>Find out about the importance of astronomy in Islam: Islamic Calendar</p>
 Research	<p>Check out the interactive periodic table from the Royal Society of Chemistry to find out more about your favourite element: Periodic Table</p> <p>Natural History Museum - Want more birds in your garden or at your window? How to make a bird feeder</p> <p>Use this guide to identify them: British Birds</p> <p>Find out about careers in Astronomy and Space Science with the Royal Observatory Greenwich Royal Observatory</p> <p>Explore the water cycle and find out how it can be used to provide clean water- you can build it at home! Water</p>
 Watching	<p>Check out the night sky with hints of what to look for with the Royal Observatory Greenwich Royal Observatory</p> <p>Find out how people have kept in touch over long distances for hundreds of years with the Royal Observatory Greenwich Royal Observatory</p> <p>The Royal Observatory Greenwich shares this film 50 years after the Apollo 13 Space mission Apollo 13</p> <p>What's it like out in the desert searching for dinosaur remains? Dino Dig</p>
 Creative	<p>Can you build a vertical farm? The Vertical Farm</p> <p>Make and keep a wildlife journal: Nature Journal</p> <p>Can you make plastic in your own kitchen? What could you make with this material? Plastic</p> <p>Look into the Africa Engineering challenge from the Royal Society of Engineering. There are a huge range of research and design tasks Africa Engineering Challenge</p>
 Trip/Visit	<p>Visit the Natural History Museum in London. What did you learn? What would you like to see in person? Natural History Museum</p>

Science – Years 10 and 11

 <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Reading</p>	<p>Learn more about energy with this material from the Royal Society of Engineering Power Up</p>
 <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Research</p>	<p>Find out more about how we stay connected with waves: Are we connected?</p> <p>Look at this site where you will find out about the importance of Chemistry and what jobs Chemists do: Future in Chemistry</p> <p>Find out about the issues facing the planet and what you can do about climate change, habitat loss and species extinction: Rainforest Alliance</p> <p>Explore 3D models of chemicals and drugs and compare the size of atoms in the periodic table 3D Chemistry</p>
 <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Watching</p>	<p>Catch one of these astronomy talks from the Royal Observatory Edinburgh Astronomy talks</p> <p>Find some interesting lectures on materials from the Royal Institution Royal Institute</p> <p>Find out what's happening on the 'swift-cam' at the Oxford Museum of the History of Science Swift Diary</p> <p>If you want to find out what you can expect from A level Physics see this talk by Brian Cox A Level Physics</p> <p>See these videos from the Field studies Council on sustainable products which help us protect habitats and the people living nearby by shopping ethically: FSC</p> <p>Do virtual titrations? Titrations</p>
 <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Student-led</p>	<p>If you are considering a career in Physics see this resource from the Institute of Physics Institute of Physics</p>
 <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Listening</p>	<p>Hear stories from Biologists who have made world changing discoveries: Biology changing the world</p> <p>Lots of interesting articles on natural history from the Oxford Museum. More blog posts being added all the time. Museum of Natural History</p>
 <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Creative</p>	<p>Can you build an atom? Build an atom</p>