

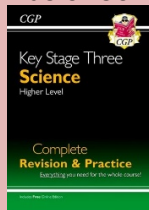
## The English Martyrs Catholic School and Sixth Form College



<u>Physics Year 7</u>	<u>Module 1</u>	<u>Module 2</u>	<u>Module 3</u>
<b><u>Topic Theme and Intent</u></b>	Students are introduced to the idea of <b>working like a scientist</b> and complete a full investigation. Students will then look at <b>forces</b> . They will consider both <b>contact and non-contact forces</b> , and how forces result in <b>motion</b> .	Students will build upon the understanding of forces acting at a distance from module 1, and look at all things <b>Space!</b> They will look at <b>day and night</b> , the <b>seasons</b> , the <b>moon</b> , and <b>Earth's place in the Solar System</b> .	Students learn about <b>waves</b> . Students will look at sound waves, how they travel and how they are detected. They will also consider light waves and how they enable us to see the world around us.
<b><u>Knowledge</u></b>	<ul style="list-style-type: none"> <li>Describing forces.</li> <li>Types of forces.</li> <li>Squashing and Stretching.</li> <li>Drag and Friction.</li> <li>Gravity.</li> <li>Balanced and Unbalanced.</li> </ul>	<ul style="list-style-type: none"> <li>The night sky</li> <li>The Solar System</li> <li>The Earth</li> <li>The Moon.</li> </ul>	<ul style="list-style-type: none"> <li>Waves</li> <li>Sound, Loudness and Pitch.</li> <li>Sound detection</li> <li>Echoes, Ultrasound</li> <li>Light, reflection and refraction</li> <li>The eye</li> </ul>
<b><u>Skills</u></b>	Students will investigate forces making measurements and testing variables.	Students will investigate the effect of gravity on different planets.	Students will investigate the effect of coloured light on the appearance of objects.
<b><u>Literacy Links</u></b>	<p><b>Reading</b> – Students will read about the the different types of forces that exist.</p> <p><b>Writing</b> – Students start to communicate scientific ideas and concepts through writing.</p> <p><b>Oracy</b> – Students start to use scientific vocabulary in discussion and question and answering.</p>	<p><b>Reading</b> – Students will read about the Solar System.</p> <p><b>Writing</b> – Students practise communicating scientific ideas and concepts through writing.</p> <p><b>Oracy</b> – Students practise the use scientific vocabulary in discussion and question and answering.</p>	<p><b>Reading</b> – Students will read about the light and how it is detected.</p> <p><b>Writing</b> – Students will communicate scientific ideas and concepts through writing.</p> <p><b>Oracy</b> – Students use scientific vocabulary in discussion and question and answering.</p>
<b><u>Essential Vocabulary</u></b>	Force, Balanced, Unbalanced, Weight, Elasticity, Resistance, Upthrust, Friction, Gravity.	Satellite, orbit, Earth, Moon, Solar System, meteorite, Universe, ellipse, gravity, constellation, eclipse.	Wavelength, transverse, longitudinal, vibration, pitch, ultrasound, echoes, luminous, reflect, refract, inverted.

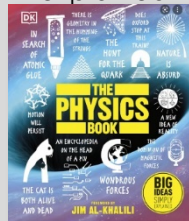
### Disciplinary Reading

CGP Books – KS3 Science



### Reading for Pleasure

DB - The Physics Book: Big ideas explained



D. O'Brain - Secret Science – The amazing world beyond your eyes



S. Baines - Harriet versus the Galaxy

