

CURRICULUM MAP – Year 7

Each topic will cover the key enquiry processes, relevant maths skills and cultural capital. See corresponding schemes of work for more detail



ST JAMES'
CATHOLIC HIGH SCHOOL

KEY
Biology
Chemistry
Physics

HT1:	HT2:	Assessment	HT3:	HT4:	Assessment	HT5:	HT6:	EOY Assessment
<p>INTENT Intro to science and Health and safety</p> <p><u>The particle model</u> Explain that the particle model is a concept that explains melting, freezing, boiling and condensing. Particles are always moving in some way depending on their kinetic energy.</p> <p><u>Cells and organisation</u> Know the structure and function of cells. Explore how these cells were first discovered and described and be able to relate the structures to function.</p> <p>Enquiry – preparation of a cheek cell and onion cell slide.</p>	<p>INTENT Energy Resources Describe where our domestic energy supply comes from and compare different sources of energy.</p> <p>Enquiry – fuel comparison</p> <p><u>Acids and alkalis</u> Explore everyday acids and alkalis and how to identify them. To use lab acids and bases and know their use in reactions.</p> <p>Enquiry – antacid investigation</p>	<p>Assessment 1 – interleaved content from HT1 and HT2</p> <p>Assessments to assess the Enquiry Processes State what is meant by a risk assessment. List what should be included in a conclusion.</p> <p>Each SOW will be formatively assessed using an 'open book' assessment</p>	<p>INTENT Sexual reproduction in animals Learn about the reproductive systems in humans. Understand how the structure of the male and female reproductive organs are related to fertilisation, the development of a foetus and birth.</p> <p><u>Forces</u> Pupils will explore different forces and their effects.</p> <p>Enquiry – friction and surfaces</p>	<p>INTENT Metals and Non-Metals Pupils will explore the properties of metals and non-metals and the chemical properties of metal and non-metal oxides with respect to acidity.</p> <p>Enquiry - Exploring the properties of metals and non-metals</p> <p><u>Fit and healthy</u> Understand the effects of recreational drugs (including substance misuse) on behaviour, health and life processes. Disease and vaccination. Muscles and the skeleton</p>	<p>Assessment – interleaved with content from HT1-4</p> <p>Assessments to assess the Enquiry Processes State some questions that can be investigated. Identify different types of variables and experimental errors. Plan and investigation State what is meant by a line of best fit. Suggest one improvement to an investigation.</p>	<p>INTENT Electricity To introduce voltage, resistance and current within series and parallel circuits.</p> <p>Enquiry – modelling electric circuits</p> <p><u>Mixtures and separations</u> Recap knowledge of solids, liquids and gases and apply this to separating techniques.</p> <p>Enquiry – separation of sand and salt</p>	<p>INTENT Ecosystems Investigate the impact of changes in a population of one organism on others in the ecosystem.</p> <p>Enquiry – population sampling</p> <p><u>Sound</u> Describe how sound is produced and how a sound wave transfers energy. Understand how the structure of the ear allows sound to be heard.</p> <p>Enquiry – soundproofing</p>	<p>End of Year assessment – interleaved content from the whole Year 7</p> <p>Assessments to assess the Enquiry Processes Name some types of enquiry question. State an example of how data can be recorded. With help, calculate a mean of two values. Add data to a graph or chart. State how to evaluate data.</p>