



# SAINT JOHN WALL CATHOLIC SCHOOL

## *A Catholic School For All*



### Departmental Schemes of Work

**Curriculum Intent:** “To educate each and every unique child in our care to hear and respond to what God calls them to be”.

### KS4 Science Y10



### Year 10 science Scheme of Work Overview

<b>Sequencing of topics</b>	Autumn term 1: Biology Autumn term 2: Biology Spring term 1: Physics	Spring term 2: Physics Summer term 1: Chemistry Summer term 2: Chemistry
<b>Calendared assessments</b>	Topic Tests are undertaken at the end of each topic within the subject. Whole school assessments; Biology Autumn Term 2 Physics Spring Term 1 Chemistry Summer Term 2 (in Class)	
<b>Personal Development</b> <i>(Cross curricular, SJW Values, SMSCV, cultural capital)</i>	Cross curricular links with maths SJW values are assigned to each topic SMSCV– Throughout lessons and working together in practical work. Vocations are assigned to each topic	
<b>Progression model</b>	<b>What <b>knowledge</b> will pupils develop? <i>(Including key terminology)</i></b>	<b>What <b>skills</b> will pupils develop? <i>(Including literacy &amp; Numeracy)</i></b>
	Pupils will develop their knowledge plant structures and functions, animal coordination, control, homeostasis, exchange and transport in animals, ecosystems and material cycles, calculations involving masses, groups in the periodic table, rates of reaction, heat energy changes in chemical reactions, fuels, earth and atmosphere, energy, forces doing work, forces and effects.	Pupils will develop practical skills, working with scientific equipment and learning to work in teams. Pupils will develop literacy skills using the departmental initiative of IDEAL. Pupils will learn numeracy skills from table reading, making different types of graphs, calculations and equations. Pupils will develop an understanding of examination preparation including integrating specific scientific terminology in work.
<b>Development homework</b>	Developmental homework will reinforce concepts taught in class and also stretch pupils with independent study on concepts not taught in class. This can be interactive programmes such as Active learn, GCSEpod, focus learning and Senca. In addition to exam papers and exam style questions.	