

## Holy Family Catholic High School

## Curriculum and Assessment Progression Map

Year 10

Subject: Combined Science Physics

Subject Leader D Wilde

Key Learning Constructs to be developed	Scheme of Learning	Scheme of Learning	Scheme of Learning
over the academic year Core Knowledge	Autumn Term	Spring Term	Summer Term
* the use of models, as in the particle model	Part 1	Part 3	Part 5
of matter or the wave models of light and of	Atomic Structure 1	Forces 1	Waves 1
sound			
* the concept of cause and effect in			
explaining such links as those between force			
and acceleration, or between changes in			
atomic nuclei and radioactive emissions			
* the phenomena of 'action at a distance'	Part 2		Part 6
and the related concept of the field as the	Atomic Structure 2	Part 4	Waves 2
key to analysing electrical, magnetic and		Forces 2	
gravitational effects			
* that differences, for example between			
pressures or temperatures or electrical			
potentials, are the drivers of change			
* that proportionality, for example between			
weight and mass of an object or between			
force and extension in a spring, is an			
important aspect of many models in science			
*that physical laws and models are			
expressed in mathematical form.			
Hinterland Knowledge	Real examples of the APPLICATION of the content	Real examples of the APPLICATION of the content	Real examples of the APPLICATION of the content
	studied (eg the development of models of the	studied (eg crumple zones/crash testing by motor	studied (eg the work of Marconi in radio
	atom)	manufacturers)	transmission)
Accessment: Formative Techniques	Has of whitehaanda himma ayaatiana yaaall ayaatiana		
Assessment: -Formative Techniques	Use of whiteboards, hinge questions, recall questions.		
-Summative Pieces			
-Summative Fieces	End of Topic Tests	End of Topic Tests	End of Topic Tests and End of Year Assessment
	Lift of Topic Tests	Lift of Topic Tests	Lift of Topic Tests and Lift of Teal Assessment
Key Vocabulary			
1.c, Tocabaiai y	Key scientific terminology appropriate to each topic	Key scientific terminology appropriate to each topic	Key scientific terminology appropriate to each topic
	studied	studied	studied
Key Skills			
<u> </u>	Working Scientifically, relevant mathematical	Working Scientifically, relevant mathematical	Working Scientifically, relevant mathematical
	techniques (percentages, mean, mode, median	techniques (percentages, mean, mode, median	techniques (percentages, mean, mode, median
	etc) Graph plotting skills. Understanding variables	etc) Graph plotting skills. Understanding variables	etc) Graph plotting skills. Understanding variables
	and anomalies and their causes and effects	and anomalies and their causes and effects	and anomalies and their causes and effects
Opportunities Outside the taught			

Curriculum.	Careers, STEAM enrichment activities, educational	Careers, STEAM enrichment activities, educational	Careers, STEAM enrichment activities, educational
	visits	visits	visits