CURRICULUM MAP – Year 11 COMBINED SCIENCE

Each topic will cover the key enquiry processes, relevant maths skills and cultural capital.

CL = Careers Links which supports the Catholic Social Teaching (CST) strand of Dignity of Work and Participation





HT1:	HT2:	Assessment	HT3:	HT4:	Assessment	HT5
INTENT	INTENT	Students	INTENT	INTENT	Students	INTENT
Fcology 4.7	Wayes 6.6	will be	Magnetism 6 7		will he	
In this section we will evolore	We learn how waves carry	assessed by	We learn about permanent	MOCK FXAMS	assessed by	Snace
how humans are threatening	energy from one place to	a series of	and induced magnetism and	MOCK EXAMS	a series of	We revisit solar system the
highly argity as well as the	another and how they carry	and of tonic	how a magnet moving in a coil	REVISION	and of tonic	life cycle of a star and how
natural systems that support	information including	tosts	can produce electric current	ALVISION .	tosts	the red shift theory helps us
it We also learn the factors	deflection of wayes and	followed by	and also that when current		followed by	to understand how the
which speed up the rate of	sound wayes	alarger	flows around a magnet it can	INTEREEAVING	a second	universe is expanding
decay and sustainable food	Sound waves.		produce movement. We learn		MOCK or	universe is expanding.
production	Link to atomic structure and	assassment	about Eloming's Loft Hand		interleaved	CL astronomor Astronaut
production.	taught before 5.0	assessment	Bule and the Motor Effect		napor at the	CL- astronomer, Astronaut,
CST Common Good and	taught before 5.5	of the torm	Rule and the Motor Effect.		ond of UT2	Geospatial reclinician.
Solidarity Looking after our	CL Audiologist Acoustic	of the term.	CL Pail Technician Sound		end of HTS.	
planet for future generations	Engineer Seismelegist		Engineer Padialogist			
Concorning onergy recourses	Ontomotrist Sound Engineer		Engineer, Radiologist			
conserving energy resources,	Lightning Designer		Lising Posourcos E 10			
Poducing carbon footprint by	Lightining Designer.		In this topic, we loarn that in			
shopping local and roducing	Inhoritance Variation and		order to operate sustainably			
food miles, supporting local	Evolution 4.6		chemists sock to minimise the			
formars Interrolationshins	We study DNA structure		use of limited resources use			
and biodiversity on a local	cloping and the theories of		of operate waste and			
and global scale, e.g.	avolution and enociation		onvironmental impact in the			
doforostation issues	evolution and speciation.		manufacture of products			
deforestation issues.	CST Dignity - Each one of us is		Chemists also aim to dispose			
	unique and beautiful and		of products at the end of their			
Delivered in the warmer	croated in God's image		usoful life in ways that onsure			
months for fieldwork	People with living with		that materials and stored			
months for heldwork	genetic disorders deserve		operavis utilised We study			
CL Ecologist Marina	dignity		the Haber Process			
Biologist Conservationist	digitity.		the haber Flocess.			
Sustainability Officer	Link to non-communicable		CST Option for the Poor - the			
Sustainability Officer.	disasses in A 3		Haber Process has allowed			
Organic Chemistry 5-7	uiscases III 4.3		anough fortiliser to be made			
Organic Chemistry 5.7			enough tertiliser to be made			

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KEY Biology Chemistry Physics

Ne learn that a great variety	CL- Genetic counsellor and	to enable more crop growth		
of carbon compounds is	palaeontologist	in the developing world		
oossible because carbon				
ntoms can form chains and	Chemistry of the Atmosphere			
ings linked by C-C bonds. We	5.9	Link to chemistry of the		
llso learn about alkenes,	We learn that the Earth's	atmosphere		
Icohols and polymers.	atmosphere is dynamic and			
	forever changing. The causes	CL- Environmental Chemist,		
ink to enzymes, DNA as a	of these changes are	Waste management.		
oolymer and inheritance	sometimes man-made and	-		
	sometimes part of natural	Homeostasis and Response		
CL- Petroleum engineer,	cycles.	4.5		
Offshore drilling worker.		We learn the structure and		
	CST Creation and the	function of the nervous and		
orces 6.5	Environment – Consider how	hormonal system. Students		
Ne learn about forces and	are actions are accelerating	also study the brain and the		
heir interactions, forces in	climate change	eye as two sensory organs		
notion, Newton's Laws of		and also the control of body		
Notion and Momentum. We	Link to Ecology and Organic	temperature and water and		
earn about moments, levers	Chemistry	nitrogen balance. We also		
and gears, pressure		learn about plant hormones.		
lifferences in fluids and	CL- Environmental Officer,			
tmospheric pressure.	Energy Analyst, Glaciologist.	CST Dignity – People who		
		receive fertility treatment		
ink to homeostasis and		have a right to dignity.		
esponse (reaction times)				
		Link to forces (reaction times)		
CL- Engineer.				
		CL- Neurosurgeon, Optician,		
Chemical Analysis 5.8		Dietician, Nephrologist.		
Ve learn about the range of				
ualitative tests to detect				
pecific chemicals, including				
now to test for ions.				

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