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



KEY Biology Chemistry Physics

HT1:	HT2:	Assessment	HT3:	HT4:	Assessment	HT5
INTENT	INTENT	Students will	INTENT	INTENT	Students will	INTENT
Ecology 4.7	Inheritance, Variation and	be assessed	Forces 6.5	Homeostasis and Response	be assessed	Magnetism 6.7
In this section we will	Evolution 4.6	by a series of	We learn about forces and		by a series of	We learn about permanent
explore how humans are	We will discover how the	end of topic	their interactions, forces in	4.5 We learn the structure and	end of topic	and induced magnetism and
threatening biodiversity as	number of chromosomes are	tests followed	motion and Newton's Laws	function of the nervous and	tests followed	how a magnet moving in a
well as the natural systems	halved during meiosis and	by a larger	of Motion.	hormonal system.	by a second	coil can produce electric
that support it.	then combined with new	MOCK	or wotton.	normonal system.	MOCK or	current and also that when
that support it.	genes from the sexual	assessment at	CL- Engineer	CST Dignity – People who	interleaved	current flows around a
CST Common Good and	partner to produce unique	the end of the	CL- Liigilieei	receive fertility treatment	paper at the	magnet it can produce
Solidarity - Looking after our	offspring.	term.	Chemistry of the	have a right to dignity.	end of HT3.	movement.
planet for future	onspring.	term.	Atmosphere 5.9	nave a right to dignity.	end of firs.	movement.
generations. Conserving	CST Dignity – Each one of us		We learn that the Earth's	Link to forces (reaction		CL- Rail Technician, Sound
energy resources,	is unique and beautiful and		atmosphere is dynamic and	times)		Engineer Radiologist, Auto
sustainable food production.	created in God's image.		forever changing. The causes	,		Engineer
Reducing carbon footprint	People with living with		of these changes are			5
by shopping local and	genetic disorders deserve		sometimes man-made and	CL - Neurosurgeon, Optician,		Chemical Analysis 5.8
reducing food miles,	dignity.		sometimes part of natural	Dietician, Nephrologist.		We learn about the range of
supporting local farmers.			cycles.	, , ,		qualitative tests to detect
Interrelationships and	Link to non-communicable					specific chemicals.
biodiversity on a local and	diseases in 4.3		CST Creation and the			Instrumental methods as a
global scale, e.g.			Environment – Consider how	MOCK EXAMS commence		means of analysing the
deforestation issues.	CL- Genetic counsellor and		are actions are accelerating	w/c 27/11/23		composition of chemicals.
	palaeontologist		climate change			
Delivered in the warmer						Link to particle model and
months for fieldwork	Organic Chemistry 5.7		Link to Ecology and Organic			energy changes
	The chemistry of carbon		Chemistry			
Link to Geog The Living	compounds is so important					CL- Environmental Officer
World (human impacts in	that it forms a separate		CL- Environmental Officer,			Forensics, Glass Artist
the tropical rainforests)	branch of chemistry. We		Vehicle Maintenance, energy			Skincare Scientist.
	learn that a great variety of		analyst, Geologist.			
Careers - Ecologist, Marine	carbon compounds is					Using Resources 5.10
Biologist, Conservationist,	possible because carbon					Industries use the Earth's
Sustainability Officer.	atoms can form chains and					natural resources to

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	rings linked by C-C bonds.			manufacture useful
Rate and Extent of Chemical				products. In this topic, we
Change 5.6	CST Peace – The limited			learn that in order to
We learn that whilst the	reserves of fossil fuels can			operate sustainably,
reactivity of chemicals is a	lead to conflict between			chemists seek to minimise
significant factor in how fast	countries.			the use of limited resources,
chemical reactions proceed,				use of energy, waste and
there are many variables	Link - DNA as a polymer in			environmental impact in the
that can be	inheritance			manufacture of these
manipulated in order to				products. Chemists also aim
speed them up or slow them	CL- Petroleum engineer,			to develop ways of
down. We learn that some	Offshore drilling worker.			disposing of products at the
reactions are reversible and				end of their useful life in
the yield can vary depending	Forces 6.5			ways that ensure that
on the conditions.	We learn about forces and			materials and stored
	their interactions, forces in			energy is utilised.
Link to energy changes	motion and Newton's Laws			
Link to organisation	of Motion.			CST Option for the Poor –
(enzymes as catalysts)				Acknowledging that people
Link to limiting factors in	Link to homeostasis and			in developing countries are
Bioenergetics (Year 10)	response (reaction times)			affected more by the
Cl. Dallastian Busanatian	Cl. Frantiscan			extraction of raw materials
CL- Pollution Prevention	CL- Engineer			and disposal of waste from
Control Officer, Chemical				developed countries.  Reduce, reuse and recycle
Engineer, Technician, Materials Scientist.				will reduce these impacts.
Waterials Scientist.				will reduce these impacts.
Waves 6.6				Link to chemistry of the
We learn how waves carry				atmosphere
energy from one place to				dinospiicie
another and how they carry				CL- Environmental Chemist,
information.				Waste management.
Link to atomic structure				

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(Year 10) and taught before 5.9			
CL- Audiologist, acoustic Engineer, Seismologist, Optometrist, Sound Engineer, Lighting Designer.			