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HT1:	HT2:	Assessment	HT3:	HT4:	Assessment	HT5 – OVERLAPS WITH	HT6 – OVERLAPS WITH	Assessment
2.		TD1			TD2	HT6	HT5	TD3
INTENT	INTENT	Students will	INTENT	INTENT	Students will	INTENT	INTENT	Students
Particle Model of	Quantitative	be assessed	Bioenergetics 4.4	Infection and Response	be assessed	Ecology 4.7	Ecology 4.7	will be
Matter 6.3	Chemistry 5.3	by a series of	We explore how	4.3	by a series of	In this section we will	In this section we will	assessed by
We learn how the	We use	end of topic	plants harness the	We study the	end of topic	explore how humans	explore how humans	a series of
particle model is	quantitative	tests and	Sun's energy in	pathogens which cause	tests and	are threatening	are threatening	end of topic
widely used to	analysis to	completion of	photosynthesis in	infectious disease in	completion of	biodiversity as well as	biodiversity as well as	tests and
predict the	determine the	the required	order to make food.	plants and animals. We	the required	the natural systems	the natural systems	completion
behaviour of	formulae of	practical	We also explore	also learn about	practical	that support it. We	that support it. We	of the
solids, liquids and	compounds and the	booklet.	aerobic vs anaerobic	monoclonal antibodies.	booklet.	also learn the factors	also learn the factors	required
gases (gas	equations for		respiration.			which speed up the	which speed up the	practical
pressure) and how	reactions. We learn			Link to History		rate of decay and	rate of decay and	booklet.
this has many	about yield and		CST – Solidarity: Our	Vaccines, Jenner,		sustainable food	sustainable food	
applications in	atom economy.		need for oxygen and	Smallpox, antibiotics		production.	production.	
everyday life.			how trees and plants	Florey and Chain,				
	CL- Pharmacist and		are essential to this	antiseptics, Louis		Delivered in the	Delivered in the	
Link to KS3 forces,	Chemical Engineer.		but we disturb this	Pasteur, Fleming		warmer months for	warmer months for	
fluids and solids,			balance through			fieldwork	fieldwork	
liquids and gases	<b>Chemical Changes</b>		deforestation and	Link to photosynthesis				
	<u>5.4</u>		farming methods.	in 4.4 when looking at		CL- Ecologist, Marine	CL- Ecologist, Marine	
CL- Deep Sea	We learn about the			plant diseases		Biologist,	Biologist,	
Diver, Materials	extraction of		Link to balancing			Conservationist,	Conservationist,	
Engineer, Jeweller.	important		equations in 5.3 and	CL- Pathologist, Doctor,		Sustainability Officer.	Sustainability Officer.	
	resources from the		links to Geography:	Lab researcher.				
Cell Biology 4.1	earth and the way		Tropical Rainforests			Rate and Extent of	Rate and Extent of	
We explore how	that some elements			Energy Changes 5.5		Chemical Change 5.6	Chemical Change 5.6	
structural	and compounds			We learn that energy		We learn that whilst	We learn that whilst	
differences	react with each		CL- Farmer, Gardener,	changes are an		the reactivity of	the reactivity of	
between types of	other and how		Sports Athlete.	important part of		chemicals is a	chemicals is a	
cells enables them	easily they can be			chemical reactions. The		significant factor in	significant factor in	
to perform specific	'pulled apart'. We		Atomic Structure 6.4	interaction of particles		how fast chemical	how fast chemical	
functions within	also learn about		We revisit the	often involves transfers		reactions proceed,	reactions proceed,	
the organism. We	titrations.		structure of the atom	of energy due to the		there are many	there are many	
learn about	CST – Dignity in the		and how this links to	breaking and formation		variables that can be	variables that can be	

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culturing	workplace and	ionising radiation.	of bonds. We learn	manipulated in order	manipulated in order	
microbes.	participation:	Nuclear	about chemical cells	to speed them up or	to speed them up or	
	Miners in LEDCs	fission/fusion.	and fuel cells.	slow them down. We	slow them down. We	
Link to particles	being exploited and			learn that some	learn that some	
Link to History	poor safety.	Recap bonding and	Link to bioenergetics as	reactions are	reactions are	
HT2 Stem Cells	Link to ionic	DNA from cell biology	examples of	reversible and the	reversible and the	
Health and the	bonding in 5.2		endothermic and	yield can vary	yield can vary	
People		CL- Medical Physicist,	exothermic reactions	depending on the	depending on the	
	CL- Quarry	Radiographer,	CL- Energy engineer	conditions.	conditions.	
CST -	Engineer,	Radiation Protection				
Dignity: Stem cell	Geoscientist.	Practitioner.	Atomic Structure 6.4	Link to energy changes	Link to energy changes	
research form			We revisit the structure	Link to organisation	Link to organisation	
embryos	Organisation 4.2	<b>Quantitative</b>	of the atom and how	(enzymes as catalysts)	(enzymes as catalysts)	
encourages loss of	We learn about the	Chemistry 5.3	this links to ionising	Link to limiting factors	Link to limiting factors	
life.	human digestive	We use quantitative	radiation. Nuclear	in Bioenergetics	in Bioenergetics	
Creation and	system which	analysis to determine	fission/fusion.			
<b>Environment: Life</b>	provides the body	the formulae of		CL- Pollution	CL- Pollution	
begins from a	with nutrients and	compounds and the	Recap bonding and	<b>Prevention Control</b>	Prevention Control	
fertilized egg cell.	the respiratory	equations for	DNA from cell biology	Officer, Chemical	Officer, Chemical	
	system that	reactions. We learn	Links to the teaching of	Engineer, Chemical	Engineer, Chemical	
	provides it with	about yield and atom	Russia in Humanities	Technician, Materials	Technician, Materials	
CL – Animal	oxygen and	economy.	due to the radiation	Scientist.	Scientist.	
Technician,	removes carbon		poisoning of			
Biologist, Botanist,	dioxide. We will	CL- Pharmacist and	Litvinyenko.		Waves 6.6	
General	also learn how the	Chemical Engineer.			We learn how waves	
Practitioner (GP),	plant's transport		CL- Medical Physicist,	Waves 6.6	carry energy from one	
Hospital Doctor,	system is		Radiographer,	We learn how waves	place to another and	
Pharmacologist.	dependent on		Radiation Protection	carry energy from one	how they carry	
	environmental		Practitioner.	place to another and	information, including	
<b>Bonding, Structure</b>	conditions to			how they carry	deflection of waves	
and Properties of	ensure that leaf			information, including	and sound waves.	
Matter 5.2	cells are provided			deflection of waves		
We use theories of	with what they			and sound waves.	Link to atomic	
structure and	need for				structure and taught	

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bonding to explain	photosynthesis.				before 5.9	
the physical and	,			Link to atomic	Link to seismic waves	
chemical	CST – Options for			structure and taught	in Geography	
properties of	the poor: Poor diet			before 5.9		
materials	has an impact on			Link to Seismic Waves	CL- Audiologist,	
including	health e.g. heart			in Geography	Acoustic Engineer,	
nanoparticles.	disease.			5558.25)	Seismologist,	
				CL- Audiologist,	Optometrist, Sound	
CL- Materials	CL- Dietitian			Acoustic Engineer,	Engineer, Lightning	
Engineer,	Cardiologist, Vet,			Seismologist,	Designer.	
Nanotechnologist,	Nutritionist,			Optometrist, Sound		
Research and	Phlebotomist,			Engineer, Lightning		
Development	Surgeon.			Designer.		
Manager.				ŭ		
	Energy 6.1					
CST – Peace: Use	For the students to					
of oil to make	look at the different					
polymers leads to	types of energy					
conflict and	store, observe in					
impacts on the	everyday examples					
environment.	how they can be					
	transferred and					
Atomic Structure	calculated and					
and the Periodic	investigate the					
<u>Table 5.1</u>	main energy					
We learn how the	resources.					
arrangement of						
elements in the	CST – Option for the					
modern periodic	poor – Cheaper					
table (including	methods of energy					
transition	production.					
elements) can be	Solidarity –					
explained in terms	Sustainable					
of atomic	resources for the					

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structure which	future.				
provides evidence	Creation and the				
for the model of a	environment –				
nuclear atom with	reducing carbon				
electrons in	footprint				
energy levels.					
	Link to KS3 energy				
CST – Dignity in	resources and				
the workplace:	Geography				
Extraction of rare					
earth resources	CL- Energy				
for a developing	Engineer,				
market.	Oceanographer,				
Common good:	Hydrologist.				
Using chemicals to					
make new	Electricity 6.2				
products to help	We learn about				
improve mankind	electrical charge				
	and current in				
Link to particles	series and parallel				
	circuits. We also				
CL- Research	learn about the				
Scientist, Chemist.	domestic uses of				
	electricity and how				
	it is supplied. We				
	study static				
	electricity.				
	Link to electrons in				
	5.1				
	CST – Creation and				
	environment – safe				
	disposal of				
	batteries.				

CURRICULIA A A A DE LA CARRETTE COLENICE

CURRICULUM MAP – Year 10 TRIPLE SCIENCE
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Solidarity			
reducing	reliance of		
fossil fue			
Options f	or the		
poor – Us			
	le energy		
resources			
once esta	ablished		
	e money to		
run.			
CL- Electr			
Engineer			