1	(I)NSPI
St.Thomas More	
CATHOLIC VOLUNTARY ACADEMY	

Year 9								
ADVENT 1	ADVENT 2	REVIEW OF LEARNING DIRT & Summative	LENT 1	LENT 2	REVIEW OF LEARNING DIRT & Summative	PENTECOST 1	PENTECOST 2	REVIEW OF LEARNING DIRT & Summative
<u>Unit Intent</u>	<u>Unit Intent</u>	<u>Assessments</u>	<u>Unit Intent</u> Fundamentals:	<u>Unit Intent</u> Fundamentals:	<u>Assessments</u>	<u>Unit Intent</u> Fundamentals:	<u>Unit Intent</u> Fundamentals:	<u>Assessments</u>
Electromagnets	Space	EoU	<b>Energy Stores and</b>	<b>Changes in Energy</b>	Formative	Efficiency & Power	National and	Summative
Describe how	Explain how gravity	Electromagnets	Systems	<b>Energy Changes in</b>	assessment on	Compare useful	<b>Global Energy</b>	Assessment
electromagnets	on different	EoU Pressure	Describing and	Systems	fundamental	and wasteful	Resources	reviewing
form, and explore	astronomical	EoU Metals & Acids	calculating energy	Describe and	content across key	energy transfers to	Compare and	fundamental
what determines	objects is linked to	EoU Inheritance	stores in kinetic,	calculate transfers	stage.	determine	evaluate	content across key
the strength of	their mass,	EoU Space	gravitational	of energy between		efficiency and	effectiveness and	stage.
electromagnets.	describe the life	EoU Environment	potential, elastic	stores (radiation,		calculate rates of	environmental	
	cycle of stars.	EoU Lifestyles	potential, thermal,	electrical,		energy transfer.	impacts of different	
Pressure			nuclear and	mechanical, and			methods of	
Calculate pressure	Environmental	Formative	chemical.	heating.		Periodic Table	generating	
in solids, whilst	Chemistry	Assessment of 7, 8				Structure	electricity.	
qualitatively	Understanding of	and year 9 content	<b>Atoms, Elements</b>	Models of Atom		History of the		
explaining pressure	causes of climate	so far.	and Compounds	History of Atom		Periodic Table	Group 1, 7 and 0	
in liquids such as	change through		Mixtures	Electron		Develop	Properties.	
hydraulics.	global warming and		Describing	Configuration		understanding of	Describe patterns	
	evaluate methods		structure of an	Describe the		periodic table	of reactivity and	
Reactions of	to reduce impact of		atom, identifying	discoveries and		structure and how	general reactions	
<b>Metals and Acids</b>	human activity on		substances as	experiments that		it translates to	linked with these	
Compare the	the environment.		elements,	led to the current		wider chemical	groups.	
reactivity of various			molecules and	model of the atom.		properties.		
metals and metal	<b>Healthy Lifestyles</b>		compounds.	Draw the electron			<b>Transport in Cells</b>	
carbonates when	Comparing the			structure of the		<b>Cell Division</b>	Diffusion	
reacting with acids.	effects on human		<b>Eukaryotic and</b>	first 20 elements.		Mitosis	<b>Active Transport</b>	
	bodily systems of		<b>Prokaryotic Cells</b>			Stem Cells	Osmosis	
Inheritance	different diets and		<b>Animal and Plant</b>	Specialisation and		Outline the stages	Determine how	
Describe the	levels of activity		Cells	Differentiation		involved in cell	substances	
structure of DNA,	including smoking		Microscopy	Describe		division.	transport across	
determine the	and illegal		Identify features	adaptations cells		Description of stem	membranes of	
alleles that present	narcotics.		and functions of	must perform		cells and their	cells based on	
from parents'			cells. How to use	specific functions		uses.	concentrations of	
genetic code.			microscopes.	as specialist cells.			ions and water.	



Examples of Catholic Social Teaching						
Space Exploration: ethical questions about the use of	Cell Biology: reinforces the inherent value and dignity of	Energy: We all rely on the same fundamental processes for				
technology and the pursuit of peaceful exploration.	each human life.	survival, creating a sense of shared community.				
<b>Healthy choices:</b> value of taking care of our bodies, which are temples of the Holy Spirit (1 Corinthians 6:19).	Atomic Structure: We share a common origin and are fundamentally made of the same "stuff."	<b>Energy:</b> We have a responsibility to future generations to ensure they have access to clean energy sources.				
Encouraging physical activity outdoors fosters a connection with nature and appreciation for God's creation.	Atomic Structure: peaceful purposes (nuclear power) and destructive purposes (nuclear weapons). Understanding atomic structure allows for informed discussions about nuclear non-proliferation and promoting peace.	Ethical considerations in genetic engineering and the potential impact on human dignity could be explored in cell biology.				
Careers						
Physicist	Geneticist	Microbiologist				
Astronomer	Marine Biologist	Geneticist				
Aerospace Engineer	Energy Physicist	Marine Biologist				
Mechanical Engineer	Chemical Engineer	Energy Physicist				
Fitness Instructor	Genetic Scientist	Chemical Engineer				
Nutritionist	Environmental Scientist	Climatologist				