## Science(Year9)

Michaelmas 1	Cell Biology
	The structure of plant cell and animal cell
	The cell organelles
	Microscops
	Iransport of substances in and out of the cell.
	Required Practical – Microscope and Osmosis
	Atomic structure and the periodic table
	Structure of atom
	Periodic table
	The historical development of the structure of the atom and the periodic table.
	Group 1, 7 and 0 elements
	Atomic Structure (Physics)
	Structure of atom
	Discovery of radioactivity
	Radioactivity
	Ises of radioactive materials in medicine, industry, agriculture and energy dependion
	• Oses of rudiodenve materials in medicine, industry, agriculture and energy generation
Michaolmas 2	
Michdelinds 2	Atomic Structure (Physics) - Continued
	Bioenergetics
	Photosynthesis
	Leaf structure
	Required practical - rate of photosynthesis.
	Respiration – Aerobic and anerobic
	Metabolism
	Bonding, structure and properties of matter
	Chemical bonds- ionic, covalent and metallic
	Properties of ionic compounds
	Polymers
	Properties of alloys and metals
	Structure and bonding of carbon- diamond, graphite, Fullerenes
Lent 1	Bonding, structure and properties of matter – continued
	Particle model of matter
	Changes of state and the particle model
	Internal energy and energy transfers
	Changes of heat and specific latent heat
	Particle model and pressure
	Health and disease
	Communicable diseases
	Human detense systems
	Vaccination
	Antibiotics and painkillers
	Discovery and development of drugs.
Lent 2	Health and disease- continued
	Chemical augntities
	Conservation of mass and balanced chemical equations
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	keiative tormula mass
	Chemical measurements
	Moles
	Limiting reactants
	Concentration of solutions

Trinity 1	Chemical quantities- continued	
	Energy	
	Energy stores and systems	
	Changes in energy	
	• Power	
	Conservation and dissipation of energy	
	Efficiency	
	National grid and global energy resources	
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Trinity 2	<u>PPE3</u>	
	Catch up!   • required practicals   • Key threshold concepts in science   • Exam practice   • Investigation skills	

•	Pollination and germination.	
Space		
•	Our solar system and the sun.	
•	Moons, eclipses and satellites.	
•	Orbits, seasons and the earths tilt.	
<u>Conservation</u>	Conservation project	
•	Biodiversity.	
•	Methods of measuring biodiversity.	
•	Conservation.	
•	Conservation poster project.	