

YEAR 11		Description	Levels covered	Skills & content covered	Skills & content revisited
SCIENCE					
CHEMISTRY UNIT 3	Chemical economics	The unit covers reaction rates and how they can be changed, students need to compare reaction rates using graphs and gradiets. The unit also explores the UK chemiacl industry and the sustainble use of resources as well as energy changes in reaction - exothermic and endothermic.	A* - G	Suggest a hypothesis that relates the mass of fuel burnt to the temperature rise of water in a calorimeter. Write a risk assessment.	Particle theory - states of matter, filtering, chromatography, fossil fuels, rocks containing useful minerals.
PHYSICS UNIT 3	Forces and transport	This unit looks at the physics behind car safety and theme park rides. Equations and graphs are used to describe speed, distance, acceleration and forces. Stopping distances, and equations of momentum are used to analyse road safety. Equations for energy transfers such as from Potential to Kinetic are explored in the context of theme park rides such as roller coasters.	A* - G	Interpreting graphs, using and rearranging equations.	Equation for distance, speed and time, types of forces and balanced or unbalanced, work, energy and power.
PHYSICS UNIT 4	Radiation for life		A* - G	Interpreting data such as from half -life of radioactive sources. Planning an investigation to investigate how the length of a wire affects the current in a lamp.	Electric circuits, uses of radioactive sources, alpha beta and gamma, nuclear power stations
CHEMISTRY UNIT 4	The Periodic table	This unit explores the structure of the atom and the properties of elements in the periodic table. Students learn how to interpret data on the physical properties of metal and learn about processes such as water purification.	A* - G	Interpreting data on metals. Researching information on resevoirs and learning how to present reseearch effectively.	Atoms and molecules, metals and non metals, the periodic table and water purification.
BIOLOGY UNIT 4	It's a green world	The unit starts by looking at parts of a plant cell and then explores biodiversity of natural and artifical ecosystems. Intensive farming methods are explored and students review how these methods can cause harm to the environement.	A* - G	How to use keys to identify different plants and animals, how to estimate population size of a species.	Organisation of cells, plant systems such as the water transport system. Variation in living things.
BIOLOGY UNIT 5	Chemical economics	The unit covers reaction rates and how they can be changed, students need to compare reaction rates using graphs and gradiets. The unit also explores the UK chemiacl industry and the sustainble use of resources as well as energy changes in reaction - exothermic and endothermic.	A* - G	Suggest a hypothesis that relates the mass of fuel burnt to the temperature rise of water in a calorimeter. Write a risk assessment.	Particle theory - states of matter, filtering, chromatography, fossil fuels, rocks containing useful minerals.

PHYSICS UNIT 5	P5	This unit looks at the physics behind car safety and theme park rides. Equations and graphs are used to describe speed, distance, acceleration and forces. Stopping distances, and equations of momentum are used to analyse road safety. Equations for energy transfers such as from Potential to Kinetic are explored in the context of theme park rides such as roller coasters.	A* - G	Interpreting graphs, using and rearranging equations.	Equation for distance, speed and time, types of forces and balanced or unbalanced, work, energy and power.
CHEMISTRY UNIT 5	C5	This unit takes an entirely random approach to presenting important aspects of physics including static electricity, longitudinal and transverse waves, ultrasound, radiation, fission and fusion. It doesn't make sense in the slightest but then neither does a lot of the education system	A* - G	Interpreting data such as from half -life of radioactive sources. Planning an investigation to investigate how the length of a wire affects the current in a lamp.	Electric circuits, uses of radioactive sources, alpha beta and gamma, nuclear power stations
BIOLOGY UNIT 6	B6	This unit explores the structure of the atom and the properties of elements in the periodic table. Students learn how to interpret data on the physical properties of metal and learn about processes such as water purification.	A* - G	Interpreting data on metals. Researching information on resevoirs and learning how to present reseearch effectively.	Atoms and molecules, metals and non metals, the periodic table and water purification.
PHYSICS UNIT 6	P6	The unit starts by looking at parts of a plant cell and then explores biodiversity of natural and artifical ecosystems. Intensive farming methods are explored and students review how these methods can cause harm to the environment.	A* - G	How to use keys to identify different plants and animals, how to estimate population size of a species.	Organisation of cells, plant systems such as the water transport system. Variation in living things.
CHEMISTRY UNIT 6	C6	The unit starts by looking at parts of a plant cell and then explores biodiversity of natural and artifical ecosystems. Intensive farming methods are explored and students review how these methods can cause harm to the environment.	A* - G	How to use keys to identify different plants and animals, how to estimate population size of a species.	Organisation of cells, plant systems such as the water transport system. Variation in living things.