

# Curriculum Update



St Mary's Catholic School

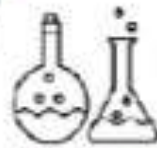
## Science is the world around you

### Energy, ecosystem, equilibrium & matter



Energy, ecosystems, nutrient cycles, photosynthesis, respiration, survival, response, receptors, controlling, feedback, acclimatisation, behaviour, homeostasis, nerve impulses, molecules, effectors, receptors, DNA technology, chemical equilibrium, acids and bases, buffers, viscosity, entropy, osmosis, anaerobic, aerobic, cellular, oxidative, redox, electrode potentials, transition elements, organic synthesis, chromatography, spectrometry, Photo: Oxidation, Thermodynamics, nuclear radioactivity, particle accelerators, detectors, particle accelerators, electromagnetic effects, atomic

Year 13



### Cell, atoms & mechanics



Cells, cell structure, transport, cell membrane, cell signalling, immune system, cell division, protein, nucleic acids, ATP, acid and organic, cis, surface area to volume ratio, gas exchange, digestion and absorption, mass transport (HA, genes and chromosomes, Peter Higgs, genetically, species and taxonomy, biodiversity

Year 12



### Oil & fuels, chemical analysis, Earth, evolution, light, ecosystem & biodiversity



Crude oil and fuels, chemical analysis, the Earth's atmosphere and resources, electromagnetic variation, genetics and evolution, organic reactions and polymers, light adaptations, interdependence and competition, organising an ecosystem, biodiversity, using our resources and space

Year 11



### Disease, chemicals, electricity, molecules, photosynthesis, respiration, nerves, force & hormones



Communicable, preventing and treating diseases, non-communicable diseases, chemical calculations and changes, electrolysis, electricity in the home, radioactivity, molecules and matter, photosynthesis, respiratory, the human nervous system, energy changes, rates and equilibrium, forces in balance and motion, motion, hormonal coordination, reproduction, wave properties, EM waves, force and pressure, homeostasis in action and crude oil and fuels

Year 10



### Cell, Atoms, energy, digestion & energy



Cell structure and transport, atomic structure, conservation and disposal of energy, energy transfer by heating, the periodic table, cell division, energy resources, structure and bonding, organisation and the digestive system, electric circuits, organising animals and plants, revision

Year 9



Food and digestion, fluids, combustion, the periodic table, plants and their reproduction, breathing and respiration, metals and their uses, light, energy transfer, unicellular organisms, the Earth and space, rocks, revision

Year 8



### Introduction to science skills, cells, Tissues, organs, electricity & sound



Science skills, cells, tissues and organs, sexual reproduction in animals, energy, mixtures and separation, acids and alkalis, electricity, muscles and bones, the particle model, forces, sound, atoms, elements and molecules, revision

Year 7



### Food, digestion, breathing, reproduction & organisms

Food and digestion, fluids, combustion, the periodic table, plants and their reproduction, breathing and respiration, metals and their uses, light, energy transfer, unicellular organisms, the Earth and space, rocks, revision

Year 6

