Tudor Grange Academy Redditch

CURRICULUM MAP

Science

KEY STAGE 3

Year 9

Autumn Term:

Biology: Cells & Microscopy , Digestion, Organ Systems & Respiration

Chemistry: Particles & their behaviour, Separating Substances

Physics: Energy, Forces

Spring Term:

Biology: Plants

Chemistry: Acids & Alkalis, Chemical Reactions

Physics: Speed & Pressure, Electricity

Summer Term:

Biology: Cell Biology

Chemistry: The Periodic Table, Atomic structure

Physics: Energy crisis

KEY STAGE 4

Year 10

KS4 Biology:

Y10: How our body works, Respiration, Non-communicable disease, plants,

Yr11: The nervous system, Hormones, Reproduction, DNA & Genetics, Organisms & their Environment, Genetic Technology

KS4 Chemistry:

Yr10: Bonding, The Periodic Table, Quantitative chemistry 1, Chemical reactions, Energy changes, Rates .

Yr11: Electrolysis, Quantitative chemistry 2, Organic chemistry, Chemistry of the Atmosphere, Using Resources

Year 11

KS4 Physics:

Yr10: Molecules & Matter, Radioactivity, Energy & Problem solving, Electricity, Law of forces & motion,

Yr 11: Motion graphs & acceleration, Waves & EM spectrum, Electromagnetism

KEY STAGE 5

Year 12

Autumn Term:

Biology:
Unit 1- Biological Molecules
Unit 2- Cells

Medical Science:
Unit 1- Biological Molecules
Unit 2- Physiological measurement techniques

Spring Term:

Biology:
Unit 3- Organisms exchange substances with their environment
Unit 4- Genetic information, variation and relationships between organisms

Medical Science:
Unit 1- Physiological systems
Unit 2- Physiological measurement tests

Year 13

Autumn Term:

Biology:
Unit 5- Energy transfers in and between organisms (Photosynthesis).
Unit 7- Genetics. Populations, evolution and ecosystems

Medical Science:
Unit 4- Medicines and treatment of disease
Unit 5- Clinical laboratory techniques

Summer Term:

Biology:
Unit 3- Organisms exchange substances with their environment
Unit 4- Genetic information, variation and relationships between organisms

Medical Science:
Unit1- Lifestyle and non-communicable diseases
Unit 3- Medical science research methods

Spring Term:

Biology:
Unit5- Energy transfers in and between organisms (Respiration).
Unit 8- The control of gene expression

Medical Science:
Unit 4- Medicines and treatment of disease
Unit 5- Clinical laboratory techniques

Summer Term:

Biology:
Unit6- Organisms respond to changes in their internal and external environments
Unit 8- The control of gene expression
Medical Science:
Unit 6- Medical case study