

SPRS – Academic Year 2022-23

Curriculum Map – Subject: Science

Aim – Year 11 pupils will complete the iGCSE single and also complete the AQA Entry Level course at the same time. The course gives students the opportunity to study living things in a range of topics from They will acquire important scientific skills in required practical and scientific knowledge to enable them to take the 3 iGCSE external examinations at the end of KS4 and pass the ELC course in blended units.

Term 1		Term 2		Term 3	
Learning Cycle 1 7 Weeks	Learning Cycle 2 7 Weeks	Learning Cycle 3 7 Weeks	Learning Cycle 4 6 Weeks	Learning Cycle 5 5 Weeks	Learning Cycle 6 7 Weeks
<p>Intent Biology 3 Reproduction in Cells living organisms and evolution. In Biology 5 Ecology and Biology 5 Uses of biological resources -</p> <p>Implementation In reproduction they will learn how genes are passed from parents of offspring. In variation and evolution pupils study the way differences in individuals cause variation and influence survival. pupils will learn about the plants ecological resources how they are recycled In genetics and evolution pupils will understand the study of genetics has influenced our understanding of evolution</p> <p>Impact Knowledge of reproduction genes and ecology for the specification leading to the IGCSE Science single award in science and AQA entry level science.</p>	<p>Intent In Chemistry 3 Physical Chemistry. Chemistry 4 Organic Chemistry studying the compounds of Carbon.</p> <p>Implementation In Chemistry 3 Physical Chemistry how engineers understand energy changes and chemical processes to improve our lives Chemistry 4 Organic Chemistry studying the compounds of Carbon. Drawing understand molecules diagrams, what is in crude oils the uses of chemicals in crude oils</p> <p>Impact Knowledge of physical and organic chemistry for the specification leading to the IGCSE Science single award in science and AQA entry level science.</p>	<p>Intent In Physics 3 waves the pupils will learn the different types of waves and how they affect our lives. In physics 2 the pupils will cover electricity.</p> <p>Implementation Electricity pupils will learn how we use electricity in batteries and cells for devices and mains electricity in the home and where hid electricity comes from. In waves there are practical on water waves and light waves, how to draw and label wave diagrams and the uses of wave by humans. In Physical chemistry the pupils will learn about heat capacity of materials, rates of reactions.</p> <p>Impact Knowledge of waves and electricity for the specification leading to the IGCSE Science single award in science and AQA entry level science.</p>	<p>Intent Physics 4 Energy resources learning about energy stores and resources Physics 5 Learning about matter, solids liquids and gases.</p> <p>Implementation P4 learning the different types of energy and how energy is transferred not destroyed. P5 how particles affect pressure in liquids and gases.</p> <p>Impact Knowledge of energy and matter for the specification leading to the IGCSE Science single award in science and AQA entry level science.</p>	<p>Intent IGCSE Revision Unit P6 magnetism and electricity</p> <p>Implementation P6 learning about bar magnets, electromagnets and the uses of each. IGCSE Revision using past papers and revision guides</p> <p>Impact The units are part of the specification leading to the IGCSE Science single award in science and AQA entry level science</p> <p>Revision and Examinations</p>	