

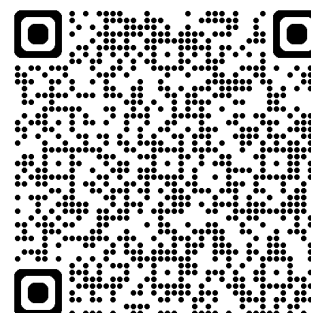
Subject: GCSE Combined Science



Examination Board Edexcel/Pearson

Specification Number 1SC0

Teacher responsible Mr Collyer



Introduction

All students at Waterfront UTC are required to study GCSE Combined Science.

Course Content

Students will cover a broad range of topics in Biology, Chemistry and Physics:

Biology 1	Cells and Control, Genetics, Natural Selection and Genetic Modification, Health disease and Medicines
Biology 2	Plant structure and Function, Coordination, Homeostasis, Exchange and Transport in animals, Ecosystems
Chemistry 1	Periodic Table, Bonding and Structure, Quantitative chemistry, Extracting Metals and Equilibrium, Electrolysis and Separation of substances
Chemistry 2	Enthalpy changes, Fuels and Earth Science, Reaction Rates, Groups in the Periodic Table
Physics 1	Motion and Forces, Conservation of Energy, Waves, Light and EM spectrum, Radioactivity
Physics 2	Energy and Work, Forces and their effects, Electricity and Circuits, Magnetism and the Motor effect, Induction, the Particle Model of matter

Assessment

Assessment takes place at the end of the course and is 100% examination based. There are six examinations. Each examination is worth 16.7%. Each of the terminal examinations lasts 1 hour and 10 minutes and examinations are tiered; Higher or Foundation. Foundation Tier ranges from grades 1 - 5, Higher Tier from grades 4 - 9.

As a requirement of the course, students will perform a minimum of 18 practical experiments, which may be assessed through the terminal examinations. The completion of the practical tasks is a key requirement of the course.

Progression

Students can progress from this qualification to:

- GCE A Levels, for example in Biology, Chemistry and/or Physics
- Level 3 vocational qualifications in science, for example. BTEC Level 3 in Applied Science
- Other level 3 qualifications in science related sectors, including Engineering and Construction
- Employment, for example in a science-based industry where an Apprenticeship may be available.

The content and skills for these qualifications are set by the DfE to be suitable to allow these progression routes.