END OF KEY STAGE 4

Practical Scientific skills, Scientific terms and keywords. Mathematical skills for Science.

- Biology Cell Biology, Organisation, Infection and Response, Bioenergetics, Homeostasis and Response, Inheritance, Variation and Evolution, Ecology
- Chemistry Atomic Structure and the Periodic Table, Bonding, Structure and the Properties of Matter, Quantitative Chemistry, Chemical Changes, Energy Changes, The Rate and Extent of Chemical Changes, Organic Chemistry, Chemical Analysis, Chemistry of the Atmosphere and Using Resources.
- Physics Energy, Electricity, Particle Model of Matter, Atomic Structure, Forces, Waves, Magnetism and Electromagnetism (Space if Separate Science)
- Unit 1 (External January Exam) Principles and Applications of Science I: Biology, Chemistry and Physics (Mandatory unit)
- Unit 3 (External January Exam) Science Investigation Skills (Mandatory unit)
- Unit 8 (internal) Physiology of Human Body Systems (Optional unit)
- Unit 9 (internal) Human Regulation and Reproduction (Optional unit)

June Resit Exam Opportunities

- Complete Unit 4 (internal unit) Laboratory Techniques and their Applications (Mandatory unit)
- Unit 12 (internal) Disease and Infection (Optional unit)
- Unit 23 (internal) Forensic Evidence, Collection and Analysis (Optional unit)

January Exams – Unit 1, Unit 3

- Begin Unit 2 (internal) Practical Scientific Procedures and Techniques (Mandatory unit)
- Begin Unit 5 (External June Exam) Principles and Applications of Science II: Biology, Chemistry, Physics (Mandatory unit)
- Begin Unit 7 (External June Exam) -Contemporary Issues in Science (Mandatory
- Complete Unit 8 (internal) Physiology of Human Body Systems (OP unit)
- Complete Unit 9 (internal) Human Regulation and Reproduction (Optional unit)

- Begin Unit 4 (internal unit) Laboratory Techniques and their Applications (Mandatory unit)
- Unit 12 (internal) Disease and Infection (Optional unit)
- Unit 16 (internal) Astronomy and Space Science (Optional unit)
- Unit 23 (internal) Forensic Evidence, Collection and Analysis (Optional unit)

June Exams – Unit 5. Unit 7

- Complete Unit 5 (External June Exam) Principles and Applications of Science II (Mandatory unit)
- Complete Unit 2 (internal) Practical Scientific Procedures and Techniques (Mandatory unit)
- Unit 6 (internal) Investigative Project (Mandatory unit)
- Complete Unit 7 (External June Exam) -Contemporary Issues in Science (Mandatory unit)
- Unit 21 (internal) Medical Physics Applications (Optional unit)

Resit Opportunities - Unit 1 & Unit 3

- Complete Unit 6 (internal unit) Investigative Project (Mandatory unit)
- Unit 12 (internal) Disease and Infection (Optional unit)
- Unit 16 (internal) Astronomy and Space Science (Optional unit)
- Unit 23 (internal) Forensic Evidence, Collection and Analysis (Optional unit)

BEYOND YEAR 13



- Foundation University Degrees in Pharmacy, Dentistry, Medicine
- University Degrees in all areas of Science, Biomedical Sciences, Optometry, Audiology, Physiotherapy, Occupational Therapy, Nursing
- Apprenticeships & Level 4/5 HNDs in Sciences, Technician training,











YEAR 12 SPRING YEAR 12 SUMMER

YEAR 13 AUTUMN YEAR 13 SUMMER

MPLOYER ENGAGEMENT LINKS

YEAR 12 AUTUMN

Q. What are the industry application(s) for this knowledge/concept(s)?





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YEAR IZ AUTUMN

YEAR 13 SUMMER

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YEAR 12 SPRING

YEAR 13 SPRING

YEAR 13 AUTUMN

BTEC APPLIED SCIENCE



BTEC APPLIED SCIENCE