Year 13 BTEC SCIENCE Preview Sheet

Exam Board: Pearson

Mandatory Units

Unit 5: Principles and Applications of Science II

- Content: Advanced biology (respiration, photosynthesis, homeostasis), chemistry (organic chemistry, analytical techniques), physics (fields, thermal physics).
- Assessment: Written exam (externally assessed).
- Skills: Linking advanced theory to applications, problem-solving, exam preparation.

Unit 6: Investigative Project

- Content: Independent science research project – plan, carry out, and present your investigation.
- Assessment: Internally assessed project report.
- Skills: Research, planning, extended scientific writing, evaluation.

Only for Extended Diploma

Unit 7: Contemporary Issues in Science

- Content: How science impacts society (climate change, medical ethics, emerging tech). You'll analyse articles and evidence.
- Assessment: Exam based on pre-release material (externally assessed).
- Skills: Critical thinking, scientific literacy, communication.

Optional Units

Unit 16: Astronomy and Space Science

- Content: Solar system, stars, galaxies, cosmology, observational techniques, and the physics of space exploration.
- Assessment: Assignment (internally assessed).
- Skills: Applying physics to astronomy, analysing astronomical data, linking science to technology.

Unit 21: Medical Physics Applications

- Content: Physics in healthcare – X-rays, ultrasound, MRI, radiotherapy, diagnostic imaging.
- Assessment: Assignment (internally assessed).
- Skills: Applying physics to medicine, understanding equipment, linking theory to healthcare practice.

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