

# Applied Science & Forensics

## BTEC Preparation Work

### Consolidation of GCSE – Single Part of the Course

Starting the course feeling you know what you are doing will help. These are the main topics that we will build on in Unit 1 so are a good place to start.

You can either use the links below to Bitesize or your revision guide from GCSE (Combined Science or Single Sciences are fine)

#### Biology

Unit	Link
4.1.1 Cell Structure	<a href="#">Link</a>
4.5.2 The Human Nervous System	<a href="#">Link</a> (just pp1-3)

#### Biology Knowledge Quiz



Use this QR code or follow this [link](#) to complete the self-marking knowledge quiz

(N.B. you can only complete this once and you need to do it all in one go, there are 10 questions)

#### Chemistry

Unit	Link
5.1.1 Atomic Structure	<a href="#">Link</a>
5.2 Bonding and Structure	<a href="#">Link</a>

#### Chemistry Knowledge Quiz



Use this QR code or follow this [link](#) to complete the self-marking knowledge quiz

(N.B. you can only complete this once and you need to do it all in one go, there are 10 questions)

#### Physics

Unit	Link
6.6.1 Waves in air, fluids and solids	<a href="#">Link</a>
6.6.2 Electromagnetic Waves	<a href="#">Link1</a> <a href="#">Link2</a> <a href="#">Link3</a>

#### Physics Knowledge Quiz



Use this QR code or follow this [link](#) to complete the self-marking knowledge quiz

(N.B. you can only complete this once and you need to do it all in one go, there are 10 questions)

### Cell Specialisation Research – Single Part of the Course

Prepare 1 or 2 slides or ½ or 1 side of A4 on how a particular type of specialised cell is adapted for it's function. Research your cell type so you have detail(s) beyond GCSE. We will share these in class.

To extend yourself: Find a cell type that is not on the GCSE specification. You could chose a cell type that means something to you (eg. Pancreatic cells if you are interested in diabetes, muscle cells if you are interested in sport).

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### Forensics

Unit	Link
5.8.2 Identification of Common Gases	<a href="#">Link</a>
5.8.3 Identification of ions by chemical and spectroscopic means (This is Triple only so many of you may not have done this before – have a go!)	<a href="#">Link</a>

### Forensics Knowledge Quiz



Use this QR code or follow this [link](#) to complete the self-marking knowledge quiz

(N.B. you can only complete this once and you need to do it all in one go, there are 10 questions)

### Forensics Techniques Research - Double Part of the Course

Choose one type of Forensic Evidence that you might find at a Crime Scene.

Prepare 1 or 2 slides or ½ or 1 side of A4 on how that evidence type is collected, packaged to preserve it and analysed. Use multiple sources of information (eg. Books, websites, TV documentaries) to check your findings. We will share these in class during the year.

**To extend yourself:** Find a less well known type of Forensic Evidence.

### Any Questions?

Feel free to email me on (Dr Parker, [rparker@ikbacademy.org.uk](mailto:rparker@ikbacademy.org.uk)). If you want the links, email me and I will send you an electronic copy of this sheet 😊

**The course really benefits from hard work and organisation and we look forward to working with you 😊**