

Getting Ready For *Level 2 Applied Science*

Your Name		
BTEC Level 2 Applied Science	Science Assignment	Summer 2024

We are delighted you have chosen to study Applied Science at Worthing College.

Instructions: This pack will help you make the best possible start to studying this subject.

The tasks in this pack:

- should take you **about 4 hours to complete**.
- should be handed into your teacher when teaching starts with your name on it for assessment.
- are also available on the internet – follow the links in the document.

If you need help: The tasks are designed to get a bit more difficult as you work through them as they are preparing you for studying at a higher level and to become an effective independent learner. You should try to get as far as you can working on your own but if you do need help, please email us at gettingreadyfor@worthing.ac.uk, telling us which Getting Ready For pack you are working on and what help you need. Help is available throughout the summer holidays.

Skills Focus for this Getting Ready for Pack	
Following instructions Research	Report writing

Work Experience week

All year 1 students are required to participate in a week-long work placement during their first year of study. You will be expected to locate one week's worth of work placement and submit your work experience form before October half term.

Placement Dates:

L2/L3 students on double /triple qualifications:

1 week course-specific placement, expected placement dates will be confirmed by the course leaders at the beginning of September.

Students with 2 or more single subjects:

1 week placement during the Easter holidays or w/c 23 June 2025

You can find the work experience form [HERE](#)
More information and guidance can be found [HERE](#)

Target Grade	Type of task	Task and subject specific skill reference	Deadline
All	Research and present	<p>Your assignment is to put together a presentation on <u>Cells and Atoms</u>. You can decide how to present the information and it should include the following sections and content:</p> <p>PART 1: Cells <u>Definitions:</u> For each of the following, find out what they are, plus 2 examples of each:</p> <ul style="list-style-type: none"> • Cell • Tissue • Organ • System <p><u>Animal and Plant Cells:</u> Download or draw a diagram of an animal cell and a diagram of a plant cell. Label all the structures in the list below, and write down the main function of each:</p> <ul style="list-style-type: none"> • Nucleus • Cytoplasm • Cell membrane • Chloroplast • Cell wall • Cell vacuole • Mitochondrion <p>Compare the structure of plant and animal cells – what are the similarities and what are the differences?</p>	Your first lesson
All	Research and present	<p>PART 2: Atoms <u>The Periodic Table</u> A substance containing only one type of atom is called an element. Elements can be found on the periodic table. Copy and paste or print a copy of the Periodic table and label the following groups:</p> <ul style="list-style-type: none"> • The Alkali Metals • The Transition Metals • The Halogens • The Noble gases <p>State two properties of the elements in each group you have labelled.</p> <p><u>The structure of an atom:</u> Use your periodic table to draw a diagram of a Carbon atom. Label the protons, neutrons and electrons and state their charge. Explain how you can work out the number of protons, neutrons and electrons using the atomic number and atomic mass.</p>	Your first lesson

Notes:

Information sources:

You can find most of this information in GCSE Science books; most libraries have these.

Internet links are probably most useful, but: AVOID Wikipedia! It's over complicated and may not be reliable.

- [Plant cells - Cell structure - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)
- http://www.bbc.co.uk/schools/gcsebitesize/science/add_aqa/cells/cellsrev1.shtml
- http://www.bbc.co.uk/schools/gcsebitesize/science/add_ocr_gateway/periodic_table/atomstrucrev1.shtml
- <https://www.bbc.com/bitesize/guides/zg923k7/revision/2>

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