



## SUMMER BRIDGING WORK 2025

Summer Bridging Work is an important part of your transition to Wilberforce Sixth Form College. This piece of work will count towards your effort grade. Please complete your summer bridging work in time for the start of term.

### BTEC Level 2 Extended Certificate in Applied Science

**OVERVIEW OF SUBJECT:** The Level 2 BTEC Applied Science course at Wilberforce College covers the fundamentals of science (topics relating to Biology, Chemistry and Physics). This course will therefore give you a wealth of scientific knowledge along with developing your practical working skills.

**ENTRY CRITERIA:** Four 9-3 grades or equivalent, including grade 3s in GCSE English, Maths and Science.

**You are required to bring evidence in paper or electronic format and hand this into your subject teacher during your first lesson.**

#### LITERACY TASK:

Visit the following links to research the topics listed:

- **BIOLOGY:** Eutrophication - <https://www.bbc.co.uk/bitesize/guides/zyvwxbn/revision/2>
- **CHEMISTRY:** Endothermic and Exothermic Reactions – <https://www.youtube.com/watch?v=n94wgl5MMOE>
- **PHYSICS:** Background Radiation - [https://www.youtube.com/watch?v=Se5g6h\\_Lsg0](https://www.youtube.com/watch?v=Se5g6h_Lsg0)

On plain A4 paper – using the sites/videos you have looked at above, and any other research you choose to use, produce an information sheet based on the topics:

- **BIOLOGY:** Eutrophication
- **CHEMISTRY:** Endothermic and Exothermic Reactions
- **PHYSICS:** Background Radiation

Then, on lined paper, answer the following questions in full sentences:

1. What is eutrophication?
2. What human activities cause eutrophication?
3. What are some consequences of eutrophication?
4. What happens in an endothermic reaction? What is an example?
5. What happens in an exothermic reaction? What is an example?
6. What happens to the surroundings in both an endothermic and an exothermic reaction?
7. What is background radiation?

8. What are the sources of background radiation?
9. What piece of equipment measures background radiation?

Kind regards

Lynne Quinn

**Faculty Head for Science and Art**

If you have any queries regarding your Summer Bridging Work, please contact me via email [lq@wilberforce.ac.uk](mailto:lq@wilberforce.ac.uk)  
I will aim to respond before your enrolment appointment.