



PEARSON L3 BTEC APPLIED SCIENCE (EXT. DIP.) BRIDGING PROJECT

Bolingbroke Academy – Miss Everiste; Mr Borley; Miss Lawrence; Mr Abel
Unit 4: Biology and Our Environment (Level 2 – GCSE Equivalent Task)

DEADLINE: Monday 9th September 2019 (Submit to Mr Borley)

TASK 1 – GET ORGANISED

Make sure you have the following items and bring them with you to your first lesson:

- Clear 30cm ruler
- Scientific calculator [Casio FX-83GTPLUS or similar]
- Ring binder folder
- Set of 10 extra-wide dividers for your folder
- Pad of A4 lined/squared paper
- Pens (black x2, green x1, purple x1)
- Pencil (x2) [plus a sharpener, if you chose not to use a mechanical pencil]
- Rubber

TASK 2 – LISTEN SCIENCE, THINK SCIENCE, TALK SCIENCE!

Before you know it, you will be thinking about your post-18 options. It will be the biggest decision of your life so far - whether to go on to work or further study, and which area of either is best for you. Whatever you chose, you will go through a series of applications and interviews. To do well, it is really important that you have an appreciation of your subject outside the context of school and exams.

You are incredibly lucky to be studying in the age of the internet where it is incredibly easy to share information. There are lots of amazing Science and technology podcasts, YouTube channels and apps available. Of these, my current favourite are a series of free podcasts called Radiolab.

Listen to four podcasts – pick the **two** you find most interesting. For each one, write a **400 word (±10%)** critical reflection using the framework of prompts below to guide your response.

- **Grays Donation:** <http://www.radiolab.org/story/grays-donation/>
- **Nukes:** <http://www.radiolab.org/story/nukes/>
- **Funky Hand Jive:** <http://www.radiolab.org/story/funky-hand-jive/>
- **Rhino Hunter:** <http://www.radiolab.org/story/rhino-hunter/>

This framework is here to support you in identifying and developing options of what to write. There are no right or wrong responses although the overarching frames of “The what?”, “So what?” and “Now what?” are important components in a critical reflection.

THE WHAT?

A description of the incident/experience with just enough detail to support doing your “So what?” section. For example, description about who, what, why, when, where.

SO WHAT?

This is the sense-making section that asks you to surface general meaning, significance, your position/view point; actions; emotions (before-during-after).

NOW WHAT?

This section makes connections from the experience / incident to further actions. For example, what would you do differently/the same next time? How come? What are key points, lessons learnt to share with your colleagues, network and/or group outside the network? (e.g. idea, product, process, concept)? How will you do this?

TASK 3 – KEEP YOUR HEAD ABOVE WATER!

Applied Science is an academically demanding course. To give yourself the best start, you need to make sure you do not forget the knowledge and skills you have acquired whilst studying for your GCSEs.

Complete the **Maths Skills worksheets (Pages 3-6)**. Your work must be laid out clearly. Each set of answers should be given an underlined title. Keep a list of any topics you struggle with. Please keep a record of how long it takes you to complete this task.

TASK 4 – PRACTICE ASSIGNMENT (GCSE LEVEL CONTENT)

Please refer to 'Unit 4: Biology and Our Environment' Assignment Brief.

78% of the Applied Science course is assessed via coursework. For each assignment, you will be given an assignment brief which clearly outlines what you have to do to meet the Pass, Merit and Distinction criteria.

Task 4 tests your ability to follow an Assignment Brief. The brief in Task 4 is laid out exactly as your assignments will be next year but it is based on GCSE content which you should be familiar with. To do well, you must ensure you meet every single bullet point of the task to a high standard, so you must follow the assignment brief very closely.

Your challenge is to get a **Distinction** on this assignment.

USEFUL CONTACTS

If you need assistance with any of the above, please do not hesitate to contact one of the following members of Year 12 Applied Science staff:

STAFF	EMAIL ADDRESS	ROLE
Mr N. Borley	n.borley@arkbolingbrokeacademy.org	Head of Chemistry + Key Stage 5 Science Lead
Miss Lawrence	j.lawrence@arkbolingbrokeacademy.org	Teacher of Science (Biology Specialism) + Key Stage 3 Science Lead
Mr Abel	j.abel@arkbolingbrokeacademy.org	Teacher of Science (Physics Specialism)