**The Summer Bridging Work MUST be handed into one of your subject teachers by Friday 13 September 2019.**

**Your work will be assessed in September by your class teachers.**

**Anyone not completing the work or producing work of poor quality will be re-interviewed regarding their place on the course and in the Sixth Form.**

**The aims are for you to understand if you like the course and for you to be ready to start learning at post-16 level.**

**All work is due in on Friday 13 September 2019.**

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## Things you will need to succeed every day in the Sixth Form:

* Pens
* Highlighters
* A pencil case
* Your own lined paper
* A single-hole punch (available from the school shop for £1)
* ****A pair of scissors
* ****Glue

**Things you will need for this course:**

* A lever-arch folder for storing work at home
* A ring-binder for work for the current unit
* A pack of at least 20 file dividers
* A Scientific calculator
* A ruler
* Summer Bridging Work biology

## The books you need to buy are:

AQA Biology A-Level 2nd Edition. Glenn Toole & Susan Toole. ISBN 978-0-19-835177-1 You will need to buy this book. You will be able to purchase this at a reduced cost in September

# Your Summer Bridging Work Project:

* Each student is to research a range of sources (e.g. internet, scientific journals, newspapers, magazines, leaflets, TV programmes, interviews with experts etc..) on a particular **disease** caused by a microorganism
* Present your own research in the form of an informative and detailed A3 sized **poster**

**What areas should the poster cover?**

* Your poster should give sufficient information to address the following questions:
  + - What is the disease?
    - What organism causes the disease?
    - How does it infect the body?
    - What effect does it have on the body’s systems?
    - How can the disease be prevented and treated?
    - What impact does the disease have on society?
* TIP: if you run out of space on your A3 sheet – add more information on the other side of the sheet (to produce a double-sided information sheet)

**What else do I need to do?**

* On a separate sheet of A4 paper, produce a list of all sources/references that you have used in the production of your poster (with sufficient information on each reference so that it can be easily located by another person)
* Attach your reference list to your poster
* Be prepared to give a brief (~2 mins) presentation on the contents of your poster and what you have found out about your chosen disease

**Staff contact:** Mr Finch: FMA@cheney.oxon.sch.uk

Mrs Lynch: BLY@cheney.oxon.sch.uk

Miss Seller: ESE@cheney.oxon.sch.uk

**Exam board:** AQA

**Specification:**

[**http://www.aqa.org.uk/subjects/science/as-and-a-level/biology-7401-7402**](http://www.aqa.org.uk/subjects/science/as-and-a-level/biology-7401-7402)

**Wider Reading and Discovery List:**

**Magazines/journals**

* New Scientist
* Scientific American
* Nature
* Science
* Biological Sciences Review
* British Medical Journal
* Any scientific articles in newspapers (e.g. the Guardian on Wednesday)

**Books**

* The Greatest Show on Earth by Richard Dawkins. Bang up to date on the evidence for evolution- a great introduction to evolution.
* The Origin of Species by Charles Darwin (the final chapter- although it is all very well written).
* Why Evolution is True by Jerry Coyne (one of the best single volume introductions to evolutionary theory)
* Bad Science by Ben Goldacre- very good on the scientific method and how science works.
* The Selfish Gene by Richard Dawkins (a classic, if difficult read).
* River out of Eden by Richard Dawkins.
* Genome by Matt Ridley (very good on modern developments in genetics).
* Life by Richard Fortey (excellent on fossil evidence and the history of life).
* A Short History of Nearly Everything by Bill Bryson.
* Mapping the Deep by Robert Kunzig
* Silent Spring by Rachel Carson
* Almost Like A Whale by Steve Jones

**Places of Interest-Oxford**

* Natural History Museum
* Botanical Gardens
* Harcourt Arboretum

**Websites**

* http://www.cellsalive.com/
* http://www.yourgenome.org/
* <http://nature.com> – The site of the scientific journal
* <http://www.nhm.ac.uk> – The London Natural History Museum’s website with lots of interesting educational material
* <http://www.bbc.co.uk/news/science_and_environment> - The BBC news page for Science and the Environment