Applied Science Bridging Menu

You are about to start an exciting journey into the world of Science, good luck!

Remember

- Choose what modules you do and when, but work through them consistently. Different tasks will take you varying amounts of time, but on average you should aim to do one or two per week
- All green tasks are core modules, they are compulsory and must be completed and uploaded onto your application form by 19 August
-  The red hot chili indicates that the task is more challenging than the others
- Numbers eg (1) correspond to how you should evidence the module which can be found in the slides following the menu. They can be saved within this powerpoint or as separate documents clearly labelled with the subject

Applied Science Bridging Menu

(Green modules are core (compulsory) modules , indicates the most challenging modules)

Read

Articles on the latest research at https://www.chemistryworld.com/

https://futurumcareers.com/articles (1)

New Scientist magazine has articles on the latest developments in a range of scientific fields. (1)

Wider reading:

- The New Scientist has a good range of books on a range of science topics that are very easy to read, such as **'Does Anything Eat Wasps?'** which is answers lots of questions related to science.
- Periodic Tales, The Curious Lives of the Elements By Hugh Aldersey-Williams
- Richard Dawkins: The Selfish Gene
- Charles Darwin: The origin of species

Watch

Watch the video explaining what the BTEC course is.
https://youtu.be/IhB4oMpWoiY

Watch a TED Talk (1)

Biology -

- An evolutionary perspective on human health and disease
- A global pandemic calls for global solutions
- How community led conservation can save wildlife
- What happens during a heart attack

Chemistry – choose one or more from the link below, e.g. 'The incredible chemistry powering your smartphone' or 'How I claimed a seat at the periodic table'
https://www.ted.com/talks?topics%5B%5D=chemistry
https://www.ted.com/talks/clarice_phelps_how_i_claimed_a_seat_at_the_periodic_table?utm_campaign=tedspread&utm_medium=referral&utm_source=tedcomshare

Physics -

- The fascinating physics of everyday life
- Battling Bad Science

Listen

Physics -

The Curious Cases of Rutherford and Fry podcast (1)

No Such Thing As Fish podcast (1)
Infinite Monkey Cage podcast (1)

A range of podcasts on scientific topics from the BBC:

https://www.bbc.co.uk/programmes/b036f7w2/episodes/downloads (1)

Select from a range of **podcasts from chemistry world:**
https://www.chemistryworld.com/podcasts

https://www.rsc.org/periodic-table/podcast

(1)

Thisweekinviroogy How are the tests for vaccines for CV-19 done? (1)
Level Up Human Series 10 episode 2 (1)
Radiolab podcast relative genius (1)
Thisweekinevolution (1)

Visit (virtually or at a later date)

A **university open day** (or virtual tour) of a university that you are interested in. The UCAS website has lots of useful links.
https://www.ucas.com/undergraduate/what-and-where-study/open-days-and-events/virtual-tours

The **National Physics Laboratory** (4)

The Natural History Museum http://www.nhm.ac.uk (4)

London Zoo ZSL-virtual-tour (4)

Do

Complete the Transition Pack and bring to your first lesson.

Review GCSE content
Use your personal learning checklists to fill any gaps in knowledge. (5)

MOOCs
https://www.futurelearn.com/
Search through the MOOCs on Unifrog using the filter 'Science' and chose one that particularly interests you (6)

(1) – Book/Article/Journal/Podcast/Film Review

Review by: _____
Title: _____
Author: _____
Review of (please circle)
Book Article Journal Podcast Film Documentary

Would you/would you not recommend it? Why?
Rating:

What was it about?

What did you find particularly interesting/inspiring/shocking? Has this changed your opinion?

How does it link to this subject and why is it important?

What would you like to learn more about?

Save your answers as part of this PowerPoint & copy the template as many times as you need

(3) – Questions on Exploring a University

1. What is the first year like on the science course of your choice?
2. What can I expect over the three/four years?
3. What other subjects are useful for this course?
4. What job opportunities does a degree in this course offer?
5. What percentage of the course is practical?
6. What is unique about your chosen university?
7. What are the alternative courses you can do with a qualification in Applied Science?

Save your answers in the PowerPoint and save on your application clearly labelled with the subject 'Applied Science'

(4) – Review of Visit

Review by: _____

Location: _____

Would you/would you not recommend visiting? Why?
Rating:

What does the location specialise in? Why is it well known?

Did you find out anything new that you had previously not known?

What would you like to learn more about?

What was the most fascinating section of the museum/laboratory?

Save your answers as part of this PowerPoint & copy the template as many times as you need

(5) – Review GCSE content and Maths Skills

Review GCSE content that overlaps with Applied Science course by looking at the specification here. This is content you must be familiar with when you start as it will not be recapped.

- Create cue cards for these topics to help you remember.
- Make mind maps to show how your knowledge across each module of the GCSE links together
- Use myGCSEscience or ScienceShorts on YouTube

AQA have published a range of mathematical skill resources that you should be able to do before you start the course.

The worksheets here should be completed and saved in your locker for marking.

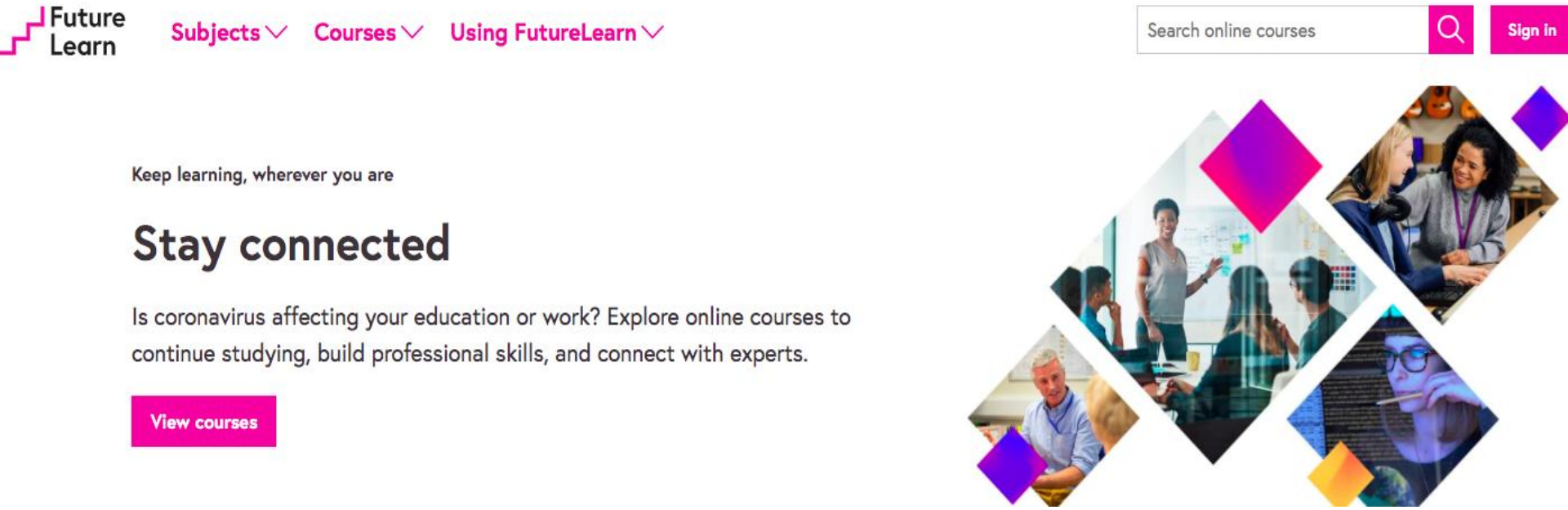
Take a photo of your resources and answers to worksheets and save on your application clearly labelled with the subject 'Applied Science'

(6) – MOOCs

These are massive open online courses that you can take whilst you are at home. Most are completely free to complete with a small fee for the certificate (but you do not need to print this- you can screen shot the completed stage).

To evidence this you can

- Save any notes you take
- Take and save a screenshot of completed modules or the completed course



Save it as part of this PowerPoint or if there is a downloadable certificate save as 'Applied Science MOOC' on your application