

Expectation: Complete all tasks to the best of your ability. Bring all completed work to your first geography lesson. The work for question 2 should be HAND written using full sentences and be about 500 words in length. Question 3 should be completed as summarised notes for you to refer to in class.

1. Read this article to help introduce your first A-Level Geography topic focussing on the carbon cycle.
<https://earthobservatory.nasa.gov/features/CarbonCycle> (article link here, and at the QR code, taken from the NASA Earth Observatory).



2. Use ideas from your reading (from task 1) and figure 2.2 below to answer questions a-e below. Bring your written answers to your first lesson.
 - Study figure 2.2. below.
 - a) Which is the largest store of carbon?
 - b) Which is the largest flux (transfer) of carbon?
 - c) Based on the data (petagrams of carbon (PgC)), explain the relative importance of terrestrial, atmospheric and oceanic stores.
 - d) Based on the data (PgC/yr), explain the relative importance of terrestrial, atmospheric and oceanic fluxes.
 - e) Explain the importance of geological carbon stores in balancing the carbon cycle.

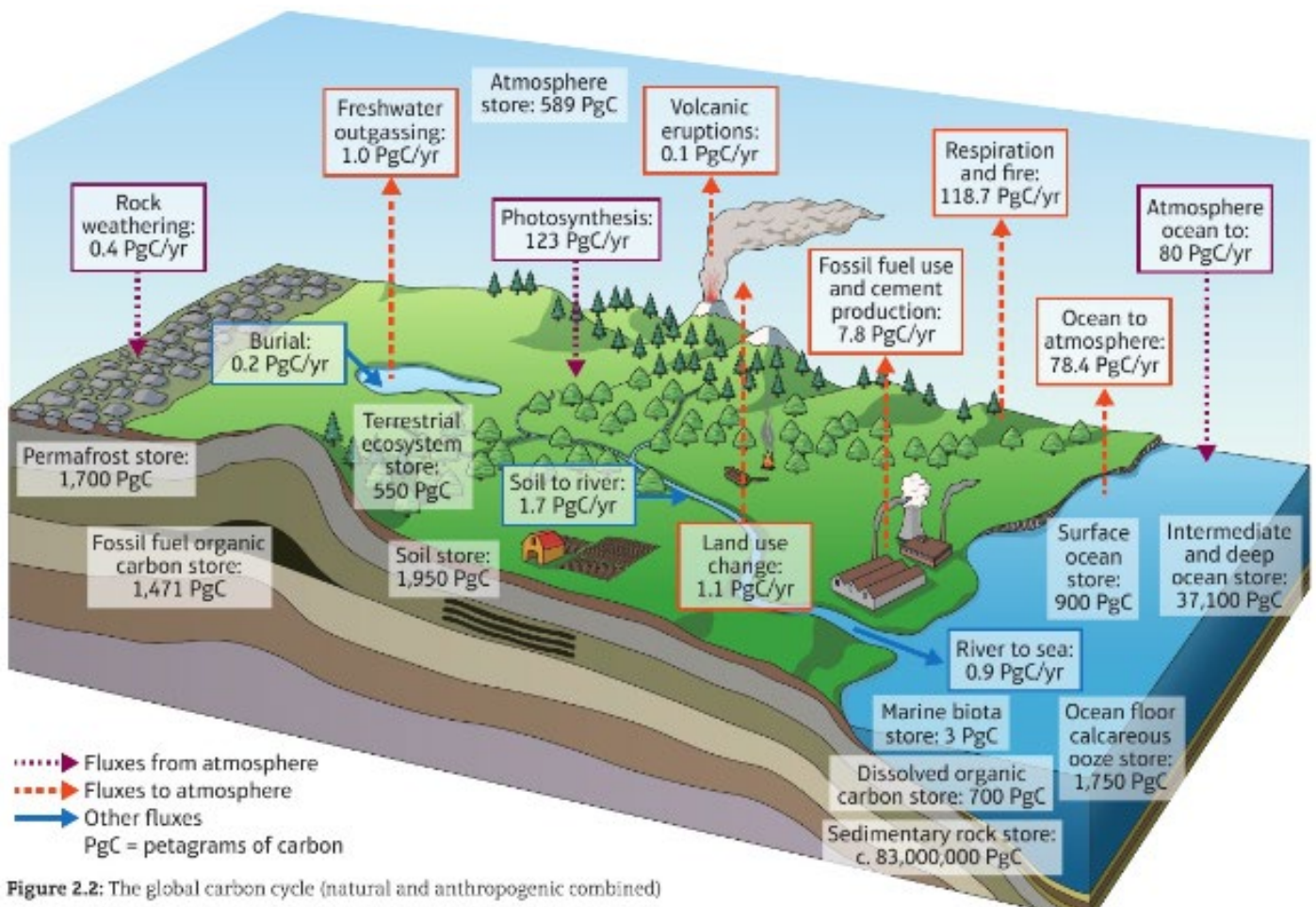


Figure 2.2: The global carbon cycle (natural and anthropogenic combined)

3. **Read the following article:**

<https://www.theguardian.com/environment/2024/nov/21/canada-arctic-herschel-island-qikiqtaruk-climate-permafrost-tundra-ecology-aoe>

Watch the following video:

<https://www.youtube.com/watch?v=61SWIYwCaSE&t=126s>

Examining different potential 'futures' (and the actions of key players) is an important part of your course. Prepare some notes for a class discussion summarising some of the key content from the article and the video. Summarising is a key skill in geography – you do not need to write down everything!

Then add some of your own comments on how unexpected events and actions can influence our carbon futures.

Article:



Video:



Be Prepared

As an A-Level student we expect you to develop the skills of independent learning, and this will be the biggest change from GCSE as you need to do a minimum of 4 hours a week private study for the best chance of success. Organisation is key to this, so please bring with you to your first lesson the items listed below:

- A4 Lever Arch folder
- A4 Dividers
- Lined paper
- Stationery e.g. pens, pencil, highlighters etc.
- Your summer work

Teachers will check you have these things in your first induction lesson

Summer Work must be handed into your teacher the FIRST lesson back. So please put that in your folder ready to bring it in.

A-Level Geography Summer Work (Optional Extension)

These are resources for those of you really wanting to explore the key themes you will be studying over the 2 years of your course. Each gives you a flavour of Geography at A-Level and the debates surrounding your taught course.

Glaciation Case Studies

Antarctic Glaciers is a fantastic website for adding more detail to your glaciation case studies. http://www.antarcticglaciers.org/glacial-geology/patagonian-ice-sheet/?fbclid=IwAROPkVoUIDKW5e-AJckh4yUJS3fTDRSFxVBi9_N6aDQ7oH1ZKZy6qeORW-s

Future Learn Courses

Future Learn is an online platform which runs courses from universities on various subjects.

- Free Meteorology Course - <https://www.futurelearn.com/courses/come-rain-or-shine?fbclid=IwAR23pPqHaDXQI2pwufNHR8HsjuwYeo70FHM26VsCbyXDOop2JECbw-P8T6E>
- Free Water Security Course - <https://www.futurelearn.com/courses/global-water-security>
This is particularly good as revision for the water unit.

There are various other courses, so make sure to have a look around the site.

RGS

The RGS has a huge selection of online lectures, many of which are now free to access, like this one on water security.

https://www.rgs.org/schools/teaching-resources/water-security-%e2%80%93-professor-chad-staddon/?utm_source=Twitter&utm_medium=social&utm_campaign=SocialSignIn

Time for Geography

Time for Geography has various geography videos showing a variety of processes, for example the formation of drumlins.

https://timeforgeography.co.uk/?fbclid=IwAROLHEr540Xg8cHAbDKKEBYCZSpPjrThal8rPDiLdJhKG7Wf0ev1zc_f-GM

Vox

Vox is an investigative journalism website based in the US. It produces excellent explanatory videos and is particularly good for migration and superpowers.

- Vox Atlas -<https://www.youtube.com/playlist?list=PLJ8cMiYb3G5e4MOMzf-pilWQb4INRW18g>
- Vox Borders -
<https://www.youtube.com/playlist?list=PLJ8cMiYb3G5dRe4rC7m8jDaqodjZelzCZ>
- Vox World -
https://www.youtube.com/playlist?list=PLJ8cMiYb3G5czofUrrizDiyC_yNLOe_CF

Prospect Magazine

Prospect magazine has made many of its articles free, these tend to be good for superpowers and globalisation.

- Spec 7.2b - Trump's America may be declining in global soft power—but US empire rolls on <https://www.prospectmagazine.co.uk/world/american-us-empire-not-in-decline-superpower-trump-proves-it-is-stronger-than-ever-militarism-daniel-bessner>
- Spec 3.7b - Is it time to retire the term "developing country"?
<https://www.prospectmagazine.co.uk/world/is-it-time-to-retire-the-term-developing-country-wto-united-nations-global-inequality>
- Spec 7.2b - Weaker, poorer and less safe—how the coming battle between the US and China could damage Britain and Europe
<https://www.prospectmagazine.co.uk/world/weaker-poorer-and-less-safe-how-the-coming-battle-between-the-us-and-china-could-damage-britain-and-europe>

The Conversation

Articles on the Conversation are written by academics at the cutting edge in their field and provide excellent extra-reading. There is an 'Energy and the Environment' section which is very good for the carbon cycle.

- Climate change: how Senegal's colonial history made it more vulnerable
<https://theconversation.com/climate-change-how-senegals-colonial-history-made-it-more-vulnerable-132063>
This article links together our work on SAPs and climate change.

E-Books

Some publishing houses have reduced the cost of their e-books. Reece Jones' *Violent Borders* is particularly good for the Migration topic and is now reduced to only £2.

Violent Borders <https://www.versobooks.com/books/2516-violent-borders>

