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Preparing for Year 12 : (Subject) Geography

We want you to begin your Year 12 Studies feeling prepared and confident. Therefore, you will be tasked with completing a range of Summer Work for the subjects you plan to continue studying. If you are unsure which subjects you might want to study, you should complete work for the subjects you are considering. This will help give you a “taster” of the subject, in place of the taster lessons you would normally be receiving face-to-face. **You should expect to spend a minimum of 15 hours on each subject.** All work should be submitted to your teacher in September, however not all will require feedback.

Revision of key knowledge and skills

This will ensure you do not forget some of the skills and knowledge developed during your GCSE studies

These are just two main areas to refresh your memory on before September. You will be able to revise other key skills by dipping into some of the suggestions on the next few pages (estimated time to spend on this **1 hour**).

Hazards:

Have a look through the tabs in this interactive website to refresh your knowledge of plate tectonics. Use the 4 tabs at the top of the page ‘*Pioneers of plate tectonics, what is a plate, plate margins, plate tectonics of the UK*’ to develop your understanding. For ‘*Pioneers of plate tectonics*’, you particularly need to know about **Alfred Wegener**. <https://www.geolsoc.org.uk/Plate-Tectonics>

Coasts:

Some super little snippets about different coastlines around the UK.

<https://www.geolsoc.org.uk/GeositesCoastal>

Key Skills Development

This will focus on ensuring you are continuing to develop the skills needed, particularly during this longer break from school

Look at the following document to refresh your memory of core skills (estimated time to spend on this: **20-30 minutes – a checklist on your preparation work must be completed**):

- ‘Skills PPT ALevel’ PowerPoint

This includes all skills that you must have an understanding of at ALevel.

Most of these are the same as GCSE and therefore you have already spent a lot of time on them! However, there are some extra ALevel standard skills that have been added (marked with a STAR).

If you need to practice any – use the ‘**Skills question booklet**’



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Research and/or wider reading

An opportunity to begin looking in more depth at the subjects you have chosen, preparing for the greater independence required in Year 12

You can use the following throughout the two year course, we do not expect you to use all before September – but dip into a couple of these over the summer – you may want to look at the topics we start with in September – Coasts & Population! (Estimated time to spend on this **4 hours**)

COASTS (Physical topic 1):

Reading: Geological structure & coastal landscapes

<http://www.bgs.ac.uk/discoveringGeology/geologyOfBritain/viewer.html>

Reading: The effect of sea level rise on coastlines

<http://www.theguardian.com/environment/sea-level>

Reading: Why is Bangladesh at risk from coastal flooding?

http://coolgeography.co.uk/A-level/AQA/Year%2012/Rivers_Floods/Flooding/Bangladesh/Bangladesh.htm

WATER & CARBON CYCLES (Physical topic 2)

Reading: Introduction to the Carbon Cycle

<https://www.khanacademy.org/science/biology/ecology/bio-geochemical-cycles/a/the-carbon-cycle>

Reading: Introduction to the Water Cycle

<https://www.khanacademy.org/science/biology/ecology/bio-geochemical-cycles/a/the-water-cycle>

HAZARDS (Physical topic 3):

Video: Power of the Planet – Volcanoes -

<https://www.dailymotion.com/video/x5af4kg>

Reading: Bitesize chunks of interesting concepts

<https://www.usgs.gov/faqs/natural-hazards%20>

POPULATION & THE ENVIRONMENT (Human topic 1)

Reading: <https://www.theguardian.com/global-development/datablog/2016/jun/28/over-populated-or-under-developed-real-story-population-growth>

Video: Hans Rosling – The facts about population

<https://www.gapminder.org/videos/dont-panic-the-facts-about-population/>

Submission Pieces

These pieces will be submitted to your teacher the first lesson in September for review and feedback

This work **must be submitted** in your first lesson in September (estimated time to spend on this **2-3 hours**)

Find attached the following documents:

- 'A Level Geography Preparation Work'
- 'Prep Work info pg2-3'
- 'Prep Work info pg38-39'

Work through the tasks, using the information sheets to help where appropriate.

Complete the skills checklist by using the 'Core Skills' documents provided in the taster session, or found in the transition work on the school website.



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Video: Hans Rosling on population growth

https://www.ted.com/talks/hans_rosling_global_population_growth_box_by_box/up-next?language=en#t-157147

Video: Chris Packham's 7.7 billion people and counting

<https://www.bbc.co.uk/programmes/m000dl6q>

CHANGING PLACES (Human topic 2)

Interactive: Changing Spaces, Making Places – a good story map introduction

<https://focusschoolwilton.maps.arcgis.com/apps/Cascade/index.html?appid=f10c512164d0498d8f3bcfad8ae61d39>

GLOBAL SYSTEMS & GOVERNANCE (Human topic 3)

Video: Seven Worlds, One Planet (David Attenborough) – Antarctica – a large case study you will look at

<https://www.bbc.co.uk/programmes/m0009tt8>

Video: World's worst place to be a woman? (Stacey Dooley Investigates)

<https://www.bbc.co.uk/iplayer/episode/b06mvwhb/stacey-dooley-investigates-worlds-worst-place-to-be-a-woman>

Video: Why climate change is a threat to Human Rights (TED Talk)

https://www.ted.com/talks/mary_robinson_why_climate_change_is_a_threat_to_human_rights

Video: What if a single human right could change the World? (TED Talk)

https://www.ted.com/talks/kristen_wenz_what_if_a_single_human_right_could_change_the_world

Supra-Learning Opportunities

Activities which will broaden your knowledge and understanding of the wider world of your subject. Things to inspire and enjoy!

Here are a wide range of different activities you can dip into through the **ENTIRE 2 YEAR COURSE!** We do **NOT** expect you to use **ALL** of these before starting the course in September. Pick what you prefer, from films, books, news articles, podcasts & documentaries. They are simply an opportunity to develop your love of Geography! (Estimated time to spend on this before September – **6 hours**)

ONLINE NEWS ARTICLES:

The Conversation <http://theconversation.com/uk>. This is really useful to support many of your A Levels. It provides up-to-date articles from academics and specialists in the field written in a way that is accessible to all, summarising key points in short but insightful articles.



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BBC NEWS <https://www.bbc.co.uk/news> - an excellent source of up-to-date articles – explore the key headings such as Science, as well as the UK, World and other stories.

The Guardian <https://www.theguardian.com/uk> - again many useful articles and logically ordered – keep an eye on the Environment, Science, Society, Global Development stories in particular!

Geographical <https://geographical.co.uk/> - lots of great online articles on a range of geographical issues.

PODCASTS

Now is the time to broaden your geographical understanding! Stick your headphones in and listen to some of the following...

Costing the Earth – There are some great podcasts here to pick from on a wide variety of geographical issues <https://www.bbc.co.uk/programmes/b006r4wn/episodes/player> (many topics, including amongst others... climate change, carbon, urban greening, deforestation, alternative power, plastics etc.)

Royal Geographical Society – “Ask the Geographer podcasts” - <https://www.rgs.org/schools/teaching-resources/ask-the-expert-podcasts/> - a fantastic set of podcasts to keep A Level studies up-to-date with the latest geographical research – pick out some that interest you and give them a go!

BOOKS

Remember you can make use of the local libraries **digital** library service for books – you don't have to access hard copies.

Prisoners of Geography (Marshall, T) – an insightful book which helps understand how physical geography impacts on political reality and really helps to understand how decisions of world leaders have been shaped by geography – a great introduction to geopolitics.

Factfulness: Ten reasons we're wrong about the world – and why things are better than you think (Rosling, H 2019) – this is a must-read book from a geography perspective – this takes a more realistic view of the world, presenting issues in fact-based context. It is a rational look at actually how far the world has measurably improved and what's left to be done.

Adventures in the Anthropocene (Vince, G) (2016) – this looks at the effects that humans are having on the surface and structure of the planet with a balanced view on recognising threats and dangers whilst also look for practical answers and solutions.

GEOGRAPHICAL DOCUMENTARIES

There are some great geographical documentaries which will help develop your general geographical knowledge and understanding and help you see what an amazing world we live in.

The following are all available on **iPlayer**.



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- **David Attenborough Box Sets** – there are 9 amazing boxsets available on iPlayer from David Attenborough exploring our amazing world <https://www.bbc.co.uk/iplayer/group/p06m42d9>
- **Meat: A Threat to Our Planet?** – Shocking but insightful program on the effect of meat on air, land and water. <https://www.bbc.co.uk/iplayer/episode/m000bqsh/meat-a-threat-to-our-planet>
- **Simon Reeve around the world** – fantastic programs giving you an insight into countries around the World. <https://www.bbc.co.uk/iplayer/group/p06rrnkm>

The following are all available on **ITV Hub**

- **Britain Underwater: Fighting the Floods** <https://www.itv.com/hub/britain-underwater-fighting-the-floods/7a0157>

The following are all available on **Channel 4 – On Demand**

- **China's Lonely Hearts (Unreported World)** <https://www.channel4.com/programmes/unreported-world/on-demand/56011-011>
- **The Day The Immigrants left** <https://www.youtube.com/watch?v=bgo-7rtGwOU>
- **The world's dirtiest river (Unreported world)** <https://www.channel4.com/programmes/unreported-world/on-demand/58399-001>
- **Forests of Fear (Unreported World)** - <https://www.channel4.com/programmes/unreported-world/on-demand/69224-006>
- **Hurricane Hell (Unreported World)** <https://www.channel4.com/programmes/unreported-world/on-demand/69224-007>
- **The World's Dirtiest Air (Unreported World)** <https://www.channel4.com/programmes/unreported-world/on-demand/67193-002>
- **The week Britain Froze (Dispatches)** <https://www.channel4.com/programmes/dispatches/on-demand/66548-007>

The following are all available on **Netflix**

- **Into the Inferno (12):** With stunning views of eruptions and lava flows it captures the raw power of volcanoes.
- **72 Dangerous Places to Live (PG):** Netflix. Get up close and personal with avalanches, fiery volcanoes and other natural disasters and learn why some people chose to live in their destructive paths.

GEOGRAPHICAL FILMS

(Some are available online free – others may be available on providers such as Amazon Prime / Netflix etc.)

- **Before the Flood (2016) (PG)** – National Geographic <https://www.filmsforaction.org/watch/before-the-flood-2016/> (presented by Leonardo DiCaprio – exploring climate change and looking at what needs to be done today to prevent catastrophic disruption of life on our planet.



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- **The Impossible (2012) (12)** – Movie based on real life events of the 2004 Boxing Day tsunami which killed 200,000 people.
- **Slumdog Millionaire (15)** – based on life in the slums of Mumbai
- **Our Planet (Netflix series)** – explores how climate change impacts all living creatures.

MOOCS (MASSIVE OPEN ONLINE COURSES)

These are free online courses available for anyone to enrol. They usually run over a period of weeks and you can fit them into the time you want - they are often flexible learning including videos, powerpoints etc.

Three of the main websites offering MOOCS are:

- Future Learn <https://www.futurelearn.com/>
- edX Courses <https://www.edx.org/course>
- Open Learning – Free learning from Open University <https://www.open.edu/openlearn/>

There are examples of MOOCs with a Geographical Theme below or you can search the links above for others in areas you are particularly interested in.

GIS:

- [Cartography](#) - this involves using ArcGIS and might be a great introduction to GIS to give foundation for work at university.

Sustainable Development:

- [Sustainable Development: Solutions and Trends](#)
- [Achieving Sustainable Development](#)

Climate Change:

- [Global Water Use and Climate Change](#)
- [Causes of Climate Change](#)
- [Climate Change Solutions](#)

Earth Sciences / Natural Hazards

- [Introduction to deep earth science](#)
- [Natural Disasters](#)
- [Earthquake Seismology](#)
- [Geo-Science – the earth and its resources](#)
- [Extreme Geological Events](#)
- [Monitoring Volcanoes and Magma Movements](#)



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