

GETTING READY FOR PACK

Environmental Science

We are delighted you have chosen to study A Level Environmental Science at Haywards Heath College

WHAT YOU WILL STUDY

Unit/Topic	<p>Overview of 2 year course topic content (more detailed information will be shared on your taster day with opportunity for Q&A)</p> <ol style="list-style-type: none"> 1. The living environment 2. The physical environment 3. Energy resources 4. Pollution 5. Biological resources 6. Sustainability 7. Research methods
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WHAT YOU NEED

Kit List (trips)	Will be posted in advance of planned fieldtrips in Teams post
Course Supplement	<p>Laboratory practicals Creative flipped learning Collaborative group work / presentations</p>
Equipment for lessons	<p>Textbook (all other learning resources provided) Laptop (own can be borrowed from the LRC (library daily basis))/Calculators/Highlighters/Pencil case</p>
Essential Textbooks	<p>AS/A Level Environmental Science by Richard Genn ISBN 13: 978-1-912190-07-2 (available from Amazon Environmental Science for AQA A level: Amazon.co.uk: Genn, Richard: 9781912190003: Books and multiple online bookstores can be ordered through Waterstones, WHSmith as well)</p> <p>AQA Board A level Environmental Science (follow this exam board specification)</p>

ENRICHMENT	
Trips	Wakehurst Place Summer term Other (tbc)
Guest Speakers	tbc
Events	tbc

OPTIONAL ADDITIONAL READING/STUDY	
As directed	Teacher will outline in ISP (independent study plan) and DS (directed study time)

SUMMER WORKING TASK INFORMATION	
Completion Date: First Lesson Week Commencing 9/9/24 GRFP Topic: The Living Environment (you can complete this work by hand, online e.g. word/PP - or a combination) <u>Name your work /file</u>	
<p>This pack will help you make the best possible start to studying this subject. The tasks in this pack should take you about 4-6 hours to complete.</p> <p>The tasks are designed to get a bit more difficult as you work through them as they are preparing you for studying at a higher level and to become an effective independent learner. You should try to get as far as you can working on your own but if you do need help, please email us at info@haywardsheath.ac.uk telling us which Getting Ready For pack you are working on and what help you need. Help is available throughout the summer holidays.</p>	

SUMMER WORKING TASK	
Skills Focus	Use of key terminology. Evaluation and note taking. Justification using data. Research and referencing.
Task 1 Definition of key terms	<ul style="list-style-type: none"> • Define the following terms: <ul style="list-style-type: none"> o Biodiversity o Conservation o Biomimetics o Climate Change o Global Warming • Make sure to include references for all your definitions
Task 2 Research and explanation	<p><u>Why Biodiversity?</u></p> <ol style="list-style-type: none"> 1. Read and create a concept map using this link – Why biodiversity is important for children UNICEF Office of Global Insight & Policy 2. Write 50-100 words on how Biodiversity may impact you Something to think about - Biodiversity in 2020: the biggest threats and opportunities Biodiversity The Guardian 3. Research why else Biodiversity may be important on a local/global. Example of a good link - Why is biodiversity important? - Game and Wildlife Conservation Trust (gwct.org.uk)

<p>Task 3 Evaluation</p>	<p>Preserving Biodiversity</p> <ul style="list-style-type: none"> • Watch the video Learning to protect biodiversity - YouTube • How can we 'protect' biodiversity? List ideas in a table and note the positives and negatives of each idea Links - 10 things you can do to help biodiversity (www.edu) Biodiversity: Why the nature crisis matters, in five graphics - BBC News <p><i>Make sure to be specific and detailed in your answers.</i></p>
<p>Task 4 Research and examples</p>	<p>Use the link - Climate Change Affects Biodiversity — Global Issues Create a concept map using the link above</p> <ul style="list-style-type: none"> - Write in the middle of an A3 sheet – 'Climate Change impacts on Biodiversity' - Draw one arrow out from the middle labelled 'changes to the Arctic' and list key points from the article. Continue to create new arrows for new topics within the article.
<p>Task 5 Evaluation</p>	<p>Using all information so far</p> <ol style="list-style-type: none"> 1. Evaluate our role in reducing climate change– list 5 strategies we could encourage e.g., using less energy – explain how. 2. For each strategy explain the positives and the negatives – what will be the challenges? Why is this important? Has this been done in other countries?
<p>Task 6 News articles</p>	<p>Look on the BBC Science and Environment website – identify a topic/article that is linked to biodiversity, climate change that interests you – create an infographic and summarise the article/information you have read on one PP slide. (title, photo, illustrative, box text, bullet points)</p>
<p>Notes: Identify each task in your work e.g. Task 1: Definitions of Key Terms Task 2: Why Biodiversity and so on. Please name your work and page number</p>	

<p>RECOMMENDED READING/WATCH LIST</p>	
<p>Review, visit online websites throughout the course (ISP and DS)</p>	
<p>Online sources for enrichment – wider learning e.g.</p>	<ul style="list-style-type: none"> • National Geographic • United Nations • NOAA • BBC Science and Environment
<p>Youtube</p>	<p>Online links to topic specific areas</p>