

Anglo European Sixth Form

Summer Transition Work

Subject: ESS

Exam Board: IB

Qualification: IB SL

Compulsory tasks:

*These tasks must be completed by students before their first lesson in September.
These tasks will be reviewed by the class teacher.*

Task 1: Watch the video link below and complete the following questions

<https://www.youtube.com/watch?v=M18HxXve3CM>

1. What is a trophic cascade (2)
2. Why do you think these are particularly important for ecosystems? (3)
3. For what reason do the Japanese claim that killing whales is good for humans and why? (2)
4. What happened when the numbers of whales declined? (1)
5. What is the zone of the ocean called where there is enough light for photosynthesis to occur? (1)
6. What do the whales release in this zone and what do they contain? (2)
7. Why are these of particular importance for plant plankton? (1)
8. How do whales help plankton when they dive up and down in the water column? (2)
9. What is the result of having more plant plankton? (2)
10. Plant plankton absorbs CO₂. What happens to this carbon after this? (2)
11. How does this influence the greenhouse effect and global temperatures? (2)

Task 2:

Read the article about Harambe the Gorilla and complete the following questions. The words in **bold** are key terms for our first unit; look these up and write a definition for each term.

<https://theconversation.com/harambe-the-gorilla-put-zoo-in-a-lose-lose-situation-by-being-himself-60278>

1. What is your **perspective** on the shooting of Harambe?
2. List the **arguments** for and against the shooting
3. What **values** do you think the zookeeper who shot Harambe held?
4. What **values** do you think the people who disagreed with the shooting held?
5. What **worldviews** do you think the zoo employees held?

Challenge task:

TOK: To what extent is it ethical to put greater value on human life than that of animals?

Advisory tasks:

These tasks will support you to excel in the course. They may not be explicitly reviewed by your teachers, but they will allow students to demonstrate a genuine passion for going “above and beyond” in this subject

Open university

Complete one (or more!) of the free courses available online through Open Learn (link below). Check out the Environment-related courses or short videos on offer in Nature & Environment. Pick something that interests you based on what you will be studying next academic year and have a go

- Introductory courses should consolidate your knowledge and understanding from GCSE and provide a stepping stone to studying in the Sixth Form.

- Intermediate course broadly replicate the level of detail required to achieve a top grade at A Level and in the IB.

- Advanced courses include material that is equivalent to undergraduate study at university.

<https://www.open.edu/openlearn/nature-environment/all-content?filter=date/grid/all/all/all/all/all/all>

Podcasts

Podcasts are recommended during the IB course, and it’s advisable to regularly check for episodes that are related to the topics/issues being covered in class, they will support independent learning. BBC podcasts are available online and through the BBC Sounds app. Below is a link to Imperial College and BBC Radio 4 with some to get started.

<https://www.imperial.ac.uk/grantham/publications/earth-and-life-sciences/>

<https://www.bbc.co.uk/programmes/b006r4wn/episodes/downloads>

Wider Reading

The following are suggested reads to broaden your knowledge of environmental issues and action. Many can be found in the school or your local library!

