

PLAN OF LESSONS 6 lessons plus 2 homework tasks

Environmental Sustainability and Climate Change

Lesson 1. Introductory Activity - Thursday 1° ora

1. BEFORE THE FLOOD Official Trailer (2016) Leonardo DiCaprio & QUESTIONS (10min)
2. Read text of Caprio speech at UN Climate Summit & QUESTIONS (15min)
3. Introduce what we mean by sustainability with 2071: The World We'll Leave Our Grandchildren. (10 min)
4. Small groups - discuss and organise research plan on climate change
What do we need to know? Or brainstorm (15 min)
5. Show plan of lessons and where is Moodle material (5min)

Lesson 2. Activity 1 Planetary boundaries- Thursday 5° ora

1. Watch TED Talk: Johan Rockstrom: Let the environment guide our development (20min)
2. Answer questions and ask teacher about anything they don't understand (15min)
Give out summary of Rockstrom's paper and diagram or article
3. Look at web page about Studentsonince and other example of problem e.g. Plastics (20min)

Lesson 3. Activity 2 Climate Change - Friday 5° ora

1. Use Nasa climate change inquiry lab ppt: Activity 2 climate change inquiry pp.ppt
2. Investigate carbon dioxide problem (lab?)
3. Explain homework

Homework before Lesson 4. Activity 3 CO2

<https://climate.nasa.gov/vital-signs/carbon-dioxide/>

Students explore the site, answer a set of questions and do Quiz: Carbon and the climate Climate change: How do we know?

https://climate.nasa.gov/climate_resources/96/

and bring their scores and answers to next lesson the following week.

Lesson 4. Activity 4 The Reverse Side - Thursday 1° ora

1. Review homework (10min)
2. Find out what they know about climate change sceptics (5min)
3. Show trailer of An Inconvenient Truth 2 sequel (5min)

4. Students do matching exercise in pairs (15min)
5. Students do pyramid discussion on sceptic arguments debating the ideas (20min)

Lesson 5. Activity 5 - Intercultural Awareness Ecological Footprint and 2030 Sustainability Goals - Thursday 5° ora

1. Read text on ecological footprint, explain and do quiz
2. Introduce 2030 Sustainability Goals
3. Look at progress of Goal 13 Climate Action in 2017
4. Introduce students to the Earthday Network - Get Your City to Go Green- which is calling on cities to go 100% renewable by 2050
5. Discuss in small groups the actions to solve the problem of sustainability with regards to climate. Write down ideas to present to class and **continue preparation at home.**

Lesson 6. Closing presentations - Friday 5° ora

1. Students present short presentations of the actions they think are most important to solve the problem of environmental sustainability and climate change
2. Conclusion, feedback and self assessment