

LESSON TOPIC

How does electricity get to the socket?

OBJECTIVES IN LINE WITH THE SCHOOL CURRICULUM:

General education: Geography:

• Identifying regularities in the spatial diversity of natural environmental conditions and of human life and various activities.

CONTENT IN LINE WITH THE CURRICULUM: Physics:

 Distinguishing between different forms of energy into which electricity is converted; identifying sources and uses of electricity;



Grade

V Time **45 min.**

Lesson plan

INTRODUCTION:

- Present the topic of the lesson to students.
- Hand out the worksheets





COURSE OF THE LESSON:

Ask students to get into pairs



- 1. Ask students to form pairs and think for a while about where electricity found in wall sockets comes from. When the pairs have completed the task discuss their work together.
- 2. Using the presentation, tell students about the path electricity covers from the energy source to the electrical socket.

the RES presentation

3. If students need to be reminded of information on energy sources, this presentation contains a link to another presentation which addresses this subject.

the RES presentation

4. Ask students to complete Tasks 1 and 2 on their worksheets.

Task 1 is designed to consolidate knowledge, while in Task 2 students evaluate the aesthetic qualities of the power plant. Discuss Task 2 together, and if you there is time, you can talk about the topic in more detail.

5. Offer students the educational game "Fact or Myth". Everything you need to carry it out is on the presentation slide. The game aims to familiarise students with popular myths about renewable energy and debunk them.

SUMMARY

- Sum up the lesson.
- Highlight what students should remember.





WORKSHEET

Lesson topic: How does electricity get to the socket?



How does electricity get to the socket?

TASK 1

Below is a diagram showing the path of electricity from the power station to your home. In the blank boxes, draw and describe the missing elements of the power grid.







WORKSHEET

How does electricity get to the socket?

TASK 2

Below are pictures of different power plants (insert pictures here). Look at them, evaluate and mark on a scale how you think they affect the landscape.



Coal power plant It burns hard coal or lignite.



Gas power plant It burns natural gas or LNG.



Biomass power plant It burns organic waste, such as wood, straw, and biogas.



Hydroelectric power plant It uses the energy of flowing or dammed water.



Nuclear power plant It uses the atomic fission reaction to generate heat and produce electricity.



Wind power plant Converts the kinetic energy of the wind into electrical energy.



Solar power plant Converts solar energy into electricity using PV panels.



Geothermal power plant It uses the heat coming from the from the Earth's interior.











