

15.12.2025

total 100 p.

DO NOT FORGET! Name & date on every sheet!!

1/ Write as much as you can about the **flash floods** (where and under what conditions (why) do they typically occur (7 p.), what are the main consequences for people downstream (5 p.), discuss predictability of flash floods (3 p.)). **In total 15 p.**

2/ Why is the Earth temperature quite stable with the average of 14°C (compared to Moon with temperatures of -243 °C to +253°C given the same distance from the Sun)?

Explain why (3 p.) (in detail, please – how is the phenomenon called (1 p.), what is the physical principle behind (10 p.), connection to the actual global warming, name at least 3 responsible gasses (6 p.)). **In total 20 p.**

3/ Explain what is meant by **diffuse (non-point) pollution** (6 p.). Describe its typical spatial and temporal characteristics (5 p.), indicate which parts of the environment are primarily affected (5 p.), and provide at least two concrete examples of diffuse pollution (4 p.). **Total 20 p.**

4/ Describe a **landfill** (basic parts) (6 p.) and discuss its role in a sustainable waste management (3 p.) . What are the advantages and disadvantages of the landfill compared to an incineration plant (6 p.) ? **Total 15 p.**

5/ Describe the different impacts of **tropospheric ozone** and **stratospheric ozone** on humans. **15 p.**

6/ With your words define the following terms:

ecosystem 7 p.

natural succession 8 p.

7/ EXTRA 1 p. for a decently elaborated feedback