STB\_TE Climate and climate change Pul

*I Determine the difference between climate and weather: tick off: X.*

|  |  |  |
| --- | --- | --- |
| EXAMPLES | WEATHER | CLIMATE |
| 1. Yesterday was very cold and windy.  2. From December to March, bears hibernate.  3. In the morning the sun was very hot, but at noon clouds appeared and it rained.  4. Spring comes with warm sun and the scent of flowering trees.  5. At the end of August, the storks gather in flocks and fly south.  6. In summer it is sunny and warm. |  |  |

*II Discuss with your partner the differences between weather and climate and write down a definition for both.*

|  |  |
| --- | --- |
|  | *Definition of weather* |

Source: <https://www.nytimes.com/2014/12/11/technology/personaltech/in-search-of-the-ideal-weather-app.html> (2022)

|  |  |
| --- | --- |
| *Definition of climate* |  |

Source: <https://naturwissenschaften.ch/climate> (2022)

*III Brainstorming: What comes to your mind when you think of “climate change”?*

*IV Watch the following video about the GSDR, the Global Sustainable Development Report:* [*https://sdgs.un.org/gsdr/gsdr2019*](https://sdgs.un.org/gsdr/gsdr2019) *(2022) and order the terms below as they occur in the video.*

|  |  |  |
| --- | --- | --- |
| **word** | **no.** | **definition** |
| biodiversity loss |  |  |
| climate change |  |  |
| sustainable |  |  |
| deforestation |  |  |
| lasting solutions |  |  |
| loosing resources |  |  |
| increased harvesting |  |  |

*V Now choose at least 3 of the terms and write down a definition.*

VI Discuss in how far you can attest that climate change has begun to knock at our doors.

Übung 1: Auszug aus UfU and Federal Ministry for the Environment, Nature Conversation and Nuclear Safety: *Climate and energy efficiency. Methodical materials.* <https://education.ecofund-bg.org/en/documents-materials/> (2022), S. 8

**Expected answers for I**

|  |  |  |
| --- | --- | --- |
| EXAMPLES | WEATHER | CLIMATE |
| 1. Yesterday was very cold and windy.  2. From December to March, bears hibernate.  3. In the morning the sun was very hot, but at noon clouds appeared and it rained.  4. Spring comes with warm sun and the scent of flowering trees.  5. At the end of August, the storks gather in flocks and fly south.  6. In summer it is sunny and warm. | X  X | X  X    X  X |

**Expected answers for II**

Definition weather: Weather reflects short-term conditions of the atmosphere in a certain moment at a certain location. It can change rapidly from one moment to the other.

Definition climate: Climate is the average daily weather for an extended period of time at a certain location. It is a long-term period of app. 30 years and also includes extreme values that deviate from statistics. (Paleogene climate even app. 1000 years)

**Expected answers for III**

climate, atmosphere, greenhouse effect, natural greenhouse effect, man-made or anthropogenic greenhouse effect, greenhouse gases, emissions, CO2, methane, nitrogen, environment, biodiversity, energy, energy consumption, fossil fuels, resources, depletion, renewable energy sources, solar power, wind power, waterpower, biomass, agriculture, industry, economy, traffic, exhaust gases, pollution, consumption, standard of living, sustainability, nature,

global warming, heat, heat rays, melting of glaciers, rise of sea levels, floods, storm floods, droughts, heavy winds, thunderstorm, hurricane, tornado, poverty, injustice, climate justice, climate refugee, mass migration

**Expected answers for IV**

|  |  |  |
| --- | --- | --- |
| **word** | **no.** | **definition** |
| biodiversity loss | 3 |  |
| climate change | 2 |  |
| sustainable | 1 |  |
| deforestation | 4 |  |
| lasting solutions | 6 |  |
| loosing ressources | 7 |  |
| increased harvesting | 5 |  |