

**PSHE Session 2 - 1 hour Climate change, Lesson 2**

**Topic: З why is climate change happening? How they affect my life and the life on the planet?**

**What is my vision for the future of the planet?**

**Unit for students 11-18 years old**

**The Big idea**

97% of scientists agree that it is mainly we humans who are blame for the climate change. The climate of the earth is constantly changing and only a handful of scientists still believe that what we are seeing is a natural phenomenon. But the temperatures are rising more than ever in the history.

"Climate change is not a long-running, far-reaching problem; is happening here and now. "

Barack Obama

During the lesson, students understand that there is a general consensus among scientists that climate change is the result of human activity, and most of all, the burning of fossil fuels. It is clear that there are alternative perspectives.

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| Directed Teaching Tasks: including group and whole class activity | Teacher support notes |
| **Introduction 30 minutes**  **The teacher moderates**  **It can be written / painted on the board or on a flip chart**  **Task 1: The students create a mind map with ideas:** Which of our Planet Earth do you love? The teacher then plays a video about the threats to the planet (2 minutes) and discusses the topic with the students.  **The teacher supports**:A Key Idea - Our planet is wonderful, inspiring, beautiful, amazing - the whole animal and plant world make it so.  **Extended discussion:**  **During the lesson, the teacher helps students reflect on the relationship between human activities and in particular, gas emissions and climate change. How can we live sustainably?** | The teacher uses the introductory discussion, to activate students' thinking in direction our planet and threats to it.  Students think about what they love in our planet. They are then invited to reflect on what will happen to the things they love due to climate change.  **Resources:**  **Video - 2 minutes**  <https://www.youtube.com/watch?v=ka_kQUvojeI> |
| **Open ideas in 20 minutes**  The students describe (each for themselves) the major industries and sectors that lead to pollution and accordingly to climate change - in Bulgaria and the world, by what they know from a common culture. | **Useful information**  **Wikipedia article on Carbon footprint**  <https://bg.wikipedia.org/wiki/%D0%92%D1%8A%D0%B3%D0%BB%D0%B5%D1%80%D0%BE%D0%B4%D0%B5%D0%BD_%D0%BE%D1%82%D0%BF%D0%B5%D1%87%D0%B0%D1%82%D1%8A%D0%BA> |
| **Opening work 20 minutes**  Students complete a questionnaire (attached at the end).  The teacher hands out the questionnaire, leaves time to complete, and helps students evaluate their carbon footprint. A brief discussion on the topic started.  The teacher talks to the students how important it is for each of us to reduce our carbon footprint to less than that of an elephant. | The idea here is to guide students to think about how they can reduce their carbon footprint on their own.  The teacher and the class think and discuss the topic, looking at each individual's footprint and the class as a whole, and how they could reduce their footprint. They are invited to think about how they could reduce their footprint and take real measures in this direction.  **Resources**  **Carbon Footprint Survey**  **(attached at the end)**  **Similar resources you can find in the following links:**  <https://bpes.bp.com/collection/carbon-footprint-toolkit>  [www.cooltheworld.com/kidscarboncalculator.php](http://www.cooltheworld.com/kidscarboncalculator.php) |
| Conclusion 10 minutes The students answer the questions  Is the climate of the earth constantly changing?   * Yes * No   Are the temperatures rising faster than ever in history?   * Yes * No   97% of scientists believe that climate change is the result of:   * burning of fossil fuels * careless driving * burning of fossil fuels in the past * melting ice caps * raising the temperature of the Sun | **The teacher can record the answers and track how the students have learned the main points of the lesson.** |

**Carbon Footprint Survey**

**How do you go to school?**

1. Walking or biking

2. By bus or public transport

3. By car

**What is your family car?**

1. We haven’t got a car.

2. We have got an electric vehicle

3. We have got a car.

4. We have a minivan, van or jeep.

**How often does someone from your family use plane for travel?**

1. We fly rarely

2. Once a year on average

3. 2-4 times a year

4. Much more

**How often does your family go to the restaurant?**

1. Never

2. Extremely Rare

3. Relatively common (1-2 times per week)

4. More often

**How do you heat your home?**

1. With electricity

2. With central heating

3. With firewood

4. With coal and other fuels

**Are there in your home?**

1. Vegan/s

2. Vegetarians

3. We eat everything

Collect points. Compare each other. Think about the footprint you and your family leave and how you might reduce it.