

## Lesson 12



# WHAT WILL OUR PLANET EARTH BE LIKE IN 100 YEARS?

**Lesson objective:** To strengthen knowledge about the impact of climate change on Earth. To inspire pupils for practical environmentally friendly actions.

Terms: climatologist, certificate.

Materials required for the workshop: A4 paper sheet for printing the certificate.



# 1. Information (Audio/text)

2 min. (1)



Learning objective:

To create an idea about the profession of a climatologist.

## **ACTIVITIES**

**Teacher:** coordinates the activity.

Pupils: listen to narration.

On screen: image with a person and different weather conditions.

People have always been interested in weather conditions and climate. In the beginning, chemists, physicists, geologists, astronomers and mathematicians puzzled over climate and weather.

Now they have been joined by people called climate scientists. They study why the temperature is rising or dropping, why the wind is blowing stronger and why the number of storms has increased. Climate scientists are people who make a variety of scientifically based predictions.

## 2. Interactive task

2 min. 🕚



Learning objectives:

To create an idea about the kind of work done by a climatologist.

#### **ACTIVITIES**

**Teacher:** coordinates activities.

**Pupils:** choose the images that show the work of a climatologist.

On the screen: Word "Climatologist" with 6 images.

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# 3. Information (Audio/text)

2 min. (1)



Learning To motivate pupils for diligent and creative work in order to obtain

objective: the certificate of the young climatologist.

### **ACTIVITIES**

**Teacher:** coordinates the activity.

Pupils: listen to narration.

On screen: cloud with a hat and a certificate.

Climate researcher or climatologist is the profession of the future. Who knows, maybe you will be one of them very soon!

Today you and your classmates will have the opportunity to obtain the certificate of the young climatologist! A certificate is a document that certifies important knowledge and skills. Therefore, be diligent, creative and observant in the lesson!

# 4. Information (Audio/text)

3 min. 🕚



Learning To provide information in a compact and brief manner on the causes of climate change. objective:

## **ACTIVITIES**

**Teacher:** coordinates the activity.

Pupils: listen to narration.

**On screen:** Animation of the Earth rotating on its axis.

Earth was formed about 4.6 billion years ago, and its temperature has changed over time. The history of the planet has seen both, warmer and much colder periods than today. But the rate, at which the atmosphere of Earth is warming, is alarming. For the first time in history humans are the main cause of Earth's climate change, not nature. It is the lifestyle of people that is the biggest cause of climate change – global warming. Climatologists believe that it will become even warmer in the coming years. It is very difficult to predict what will happen in the future!

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## 5. Discussion

3 min. 🕚



Learning To encourage pupils to think about how people will live on our

objectives: planet Earth in the future.

#### **ACTIVITIES**

Teacher: leads the discussion.

**Students:** express their opinions and explain them.

On screen: images, text.

Earth is the only planet in the entire solar system suitable for human habitation. The temperature here is just as it should be. Here there is oxygen for breathing and water for drinking, here we are protected from the sun's harmful rays and we have enough food. Besides, everything is very beautiful. Why would anyone want to live on another planet? None of the neighbouring planets are suitable for living

# 6. Information (Audio/text)

3 min. 🕚



Learning To recall the lesson topics of the learning tool "Climate and its

changes", to prepare for the final test. objective:

#### **ACTIVITIES**

**Teacher:** coordinates the activity.

**Pupils:** listen to lesson names, look at images and recall lessons.

On screen: images about lessons.

In 12 lessons we have learned about how the climate is changing and what we can do to preserve our planet. Let's remember them consecutively:

- 1) What happened to dinosaurs?
- 2) Planet Earth a unique place to live. Climate as supporter for life.
- 3) Natural phenomena: Rain, wind, hail, storm, tornado.
- 4) Natural phenomena: Earthquakes, volcanoes, tsunamis and flood.
- 5) Why is the climate changing? Global warming.
- 6) In the world of water.
- 7) Hot and cold deserts.
- 8) Forests. What endangers forests? Forest fires.
- 9) Animals and climate.
- 10) Plants and global warming.
- 11) What can be done to make the world clean and healthy? Green lifestyle.
- 12) What will our planet Earth be like in 100 years?

## 7. Interactive task

88 min. 🕚



Learning objectives:

Testing of knowledge about the whole learning material.

## **ACTIVITIES**

Teacher: coordinates activities. Students: perform test tasks.

On the screen: 25 questions from the previous 12 lessons.

## 8. Eco workshop

45 min. 🕚



Learning

To teach how to plan work for environment protection.

objectives:

#### **ACTIVITIES**

Teacher: coordinates activities.

**Pupils:** choose and plan work for climate preservation.

On the screen: Now, together with your classmates, you have to plan some practical work to preserve the climate.

The common work for climate preservation could be:

- 1) Plant trees,
- 2) Organize waste sorting in your class or school;
- 3) Organize a meeting for parents about climate change;
- 4) Create a poster exhibition about climate change;
- 5) Create a tiktok video #DIGI4CLIMA
- 6) Another work you have come up with!

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## 9. Information (Audio/text)

2 min. (1)



Learning The acquired knowledge and planned worked is the reason to

objective: obtain the certificate of the young climatologist.

#### **ACTIVITIES**

**Teacher:** Enters the necessary information in the certificate template – Country, city, school, class, the good work and prints it out on a beautiful paper, puts it in a visible

place. There can also be a digital certificate.

**Pupils:** help the teacher with the certificate creation

# 10. Information (Audio/text)

2 min. (\*)



Learning To encourage pupils to continue the work that protects our

Earth's climate. objective:

#### **ACTIVITIES**

**Teacher:** coordinates the activity.

Pupils: listen to narration.

On screen: cloud with a hat and a certificate.

We can act now to protect the Earth's future. After all, it is up to all of us – to protect the planet that we live on.

Cloud: Oh, yes, when the lesson is over, do not forget to turn off the light! Bye!!

## 11. Interactive task

2 min.



Learning Evaluation of the learning tool "Climate and its changes". objectives:

#### **ACTIVITIES**

**Teacher and pupils:** Write comments on the website – what you liked while learning with this tool!

**On the screen:** Please go to the Feedback section on the home page.

## **Sources of information:**

- 1) Māstersa M. 123 Supergudri fakti, kas jāzina par klimatu. SIA Madris, 2021. 144 pages.
- 2) Sundstens B., Jēgers J. Rīga: Madris, 2009, 44 pages.
- 3) Mērfijs G. Globālā sasilšana Rīga: Zvaigzne ABC, 2008. 64 pages.
- 4) Roulends-Intvisls T. Laikapstākļi un klimats. Rīga: Koolibri, 1995. 63 pages



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