

Plan

Main goal: Introducing how the seasons depend on latitude.

Story: It's summer in Budapest, Hungary. Little Edit has travelled to Sydney Australia, and she has realized that, she is freezing there. She wasn't prepared for such low temperature. Later she travelled back, and tried to find out, why the weather was so cold.

Problem: What is the reason?

(Learning outcomes:

- season: weather patterns and daylight hours, resulting from the earth's changing position with regard to the sun
- summer: **Summer** is the **hottest** of the four **temperate seasons**, occurring after **spring** and before **autumn**. At or centred on the **summer solstice**, the earliest sunrise and latest sunset occurs, daylight hours are longest and dark hours are shortest, with **day length** decreasing as the season progresses after the solstice.
- autumn: Autumn is the season when the duration of **daylight** becomes noticeably shorter and the temperature cools considerably. Day length decreases and night length increases as the season progresses until the Winter Solstice in December (Northern Hemisphere) and June (Southern Hemisphere).
- winter : **Winter** is the **coldest season** of the year in **polar** and **temperate climates**. It occurs after **autumn** and before **spring**. The tilt of Earth's axis causes seasons; winter occurs when a **hemisphere** is oriented away from the **Sun**. Different cultures define different dates as the start of winter, and some use a definition based on weather.)

The environment for this lesson: Deck-Toys.

Form for work: groupwork

4 group, every group is „little Edit”.

Lesson plan

I.1. Pictures

On the Australian Airport Edit find a book with pictures.

They can describe, what is on the picture. Conclusion: they have different seasons, 4 seasons.

Skills: collaboration, communication, technology

I.2.

Edit went back in Hungary where it was summer and asked:

Why are the seasons different on different hemispheres of Earth at the same time?

II.1.

She went home, turned History Channel on and saw the following programme:

<https://www.youtube.com/watch?v=tX3Y5bzNDiU>

After the film there was an advert calling participants for a Quiz game. Edit called the phone number. She was lucky, she was chosen for the show.

II.2. Quiz about the video - Matching game (Deck – Toys) – with timer

Because of the axis of Earth and the latitude of the place is the reason why the weather is not the same everywhere.

Skills: problem solving, critical thinking, technology

II.3 Edit won the show, and they made a picture of her for the Win-Wall.

Deck-toys: picture making.

Skill: crativity, technology

II.3. Simulation

Edit found her sister's laptop open with a site of a link.

Compere the tempetures of Chicago and Melburne!

Watch te lattitude also!

https://sepuplhs.org/middle/iaes/students/simulations/sepup_seasons5.html

Chicago – Lat: 41.85

Melburne – Lat: -37.814

The conclusion can be found in a Maze – game in Deck Toys with rockets.

Conclusion: the tempetures are different.

Skills: logical thinking, critical thinking, collaboration, problem solving, social skill, technology

III.4.

Edit went down to the basement, because her cat was missing. She didn't find the cat, but she found a table with a table of Jigsaw.

Jigsaw about Melbourne and Chicago on the Earth.

Conclusion: learning where these countries on the Earth map are.

Skills: collaboration, creativity, communication, problem solving

IV.1.

Edit's sister also would like to find the cat, that's why she went down to the basement. Edit was so happy, because she has got new information about the seasons and the Earth, and would like to tell it to her sister.

Checking the most important information with memory cards by Deck – Toys.

Learning goals:

- what are the most important things about the seasons,
- where are Melbourne and Chicago
- what depends on latitude.

Skills: collaboration, creativity, communication, problem solving, technology

V.2.

Outcome: Edit knows everything now, she is happy.

She really likes Chicago, that's why she wants to make pictures „in Chicago”.

Making pictures with green screen.

The end :D

