

## Didactic scenario

### 1. Title

The weather

### 2. Keywords

Weather, Weather Report, Weather Conditions, Materials

### 3. Basic information

**STEAM:** Science (Technology, Arts)

**Typical interaction time with the learning scenario during class hours for in-school work:** 2 teaching hours

**General description of the scenario:**

Phases	Stage	Time
What will the weather be like tomorrow?	Warm up activity	25'
The weather affects our lives	Implementation stage	30'
The weather and residence	Evaluation stage	35'

**Age group:** 7 years old, 2nd grade in the Greek education system.

**Estimated level of difficulty :**

Very Easy	Easy	Moderate	Challenging	Very Challenging
		X		

**Teaching resources**

**Materials:** Environmental Studies Student's book and workbook, worksheets,

**Expansion activity:** shaving foam, glass jar, liquid food coloring, , dropper, water (Rain Clouds).

**School infrastructure :** computer connected to the internet, video projector

**Additional material from external sources/online tools:**

<http://photodentro.edu.gr/aggregator/lo/photodentro-lor-8521-3027>

<https://wordwall.net/el/resource/14425732/%CE%BF->

<https://wordwall.net/el/resource/14425732/%CE%BA%CE%B1%CE%B9%CF%81%CF%8C%CF%82>

<https://docs.google.com/forms/d/1o0OSUEatT88NwRqWKc0EyzlyNTB1QOPluVxpNcdXQ1w/edit>

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#### 4. Educational Problem

The students do not know that the weather is not the same in all places, nor are they familiar with a weather report. The students in their attempt to interpret "what is the weather like" answer indiscriminately that it is: the heat, the cold, the clouds, the rain, etc., whether the place is cold or warm. Children also believe that seasons make the weather change, clouds are created by water vapor, rain falls when the clouds become too heavy or because we need it, lightning happens when two clouds collide, etc. The students have developed from previous lessons the basic skills of using the computer and are familiar with the basic functions of

TuxPaint , wordwall and concept map through which they develop weather-related activities.

## 5. Learning objectives

1. To learn about the factors on which weather conditions depend.
2. To become familiar with reading a weather report
3. To understand that different weather conditions prevail on the same day in different places
4. To relate the form of the residence to the natural conditions of each area.
5. To improve cooperation and communication skills.

## 6. Phases of the Scenario

### Phase 1

**Title:** What will the weather be like tomorrow?

Indoor	Outdoor	Mixed
X		

**Phase duration in minutes:** 25'

**Detailed description of the scenario phase:** Getting to know the second grade students. The lesson will take place in the computer lab. The aim of the activity is for the students to formulate their own assumptions and opinions around the topic "In what ways can we be informed about the weather?" We will ask the students to create a mind map with the central idea of our question, asking them to collaboratively write key words or phrases about the topic we are discussing.

Then we talk with the students about the available means of presenting the weather, starting with those that the children have already mentioned on the concept map. Children are encouraged to express their views spontaneously, using the appropriate vocabulary and asking relevant questions. If case we receive less information from the search engines, the teacher proposes the website of the National Meteorological Service and consult a weather forecast. The students, carry out an activity from <https://wordwall.net/el/resource/14425732/%CE%BF-%CE%BA%CE%B1%CE%B9%CF%81%CF%8C%CF%82> and become familiar with reading a weather report and understanding weather symbols. Questions in plenary discussion.

### Activity Sheets: Mind Map

#### Phase 2

**Title:** The weather affects our lives

Indoor	Outdoor	Mixed
X		

**Phase duration in minutes:** 30'

#### Detailed description of the scenario phase:

The students work in groups in Photodentro activities, <http://photodentro.edu.gr/aggregator/lo/photodentro-lor-8521-3027> where in the first one they are asked to create the corresponding forecast map, dragging symbols on the map of Greece. In the second activity, students are asked to write the corresponding weather report. They notice that different weather conditions prevail on the same day in different parts of Greece. Students will then construct houses using materials from the classroom corner. They will use clay to build the walls and foundation of the house. They will add sand to the structures to see how it affects the structure. Finally, they will use various materials for details and finishes. Then their works will be shown in plenary and we reflect to understand the importance of weather conditions in people's life in different parts of Greece.

**Activity sheets:** Link <http://photodentro.edu.gr/aggregator/lo/photodentro-lor-8521-3027> and instructions for carrying out the activity.

#### Phase 3

**Title:** The weather from place to place

Indoor	Outdoor	Mixed
		X
Phase duration in minutes: 35'		
<b>Detailed description of the scenario phase:</b> <p>Students in groups are asked to consolidate the relationship between climate and residence. We ask the students to bring some construction toys (blocks, legos, etc.) or materials from nature (sand, stones, clay, straw, etc.), construct houses and place them on the map in corresponding areas according to the prevailing climate.</p>		
<b>Activity Sheets:</b> At the end, students will complete an evaluation questionnaire ( googleforms ) made by the teacher to express their impressions on what is suggested by the teaching scenario. <a href="https://docs.google.com/forms/d/1o0OSUEatT88NwRqWKc0EyzlyNTB1QOPluVxpNcdXQ1w/edit">https://docs.google.com/forms/d/1o0OSUEatT88NwRqWKc0EyzlyNTB1QOPluVxpNcdXQ1w/edit</a>		

## 7. Evaluation Methodology

Initial: It s conducted through guided discovery and question-and-answer discussion

Formative : It is carried out continuously in all phases, where questions are asked and the students' path towards learning is checked.

Final : Wordwall activity .

Scenario evaluation activities.

Google forms questionnaire

## 8. Additional resources for the teacher

Folder: The weather\_ Additional resources for the teacher