

# The outline of a lesson for students with intellectual disabilities in Specjalny Ośrodek Szkolno-Wychowawczy in Złotoryja



## TOPIC

### IN THE LAND OF EXTINCT VOLCANOS Increasing the knowledge about surrounding landscapes, simulation of a volcanic eruption

## OVERALL PURPOSE

Familiarizing the students with the visualization the a volcanic eruption  
and performing a model of a volcano

## OBJECTIVES OF THE WORK

1. Students name the volcanic cones in our neighbourhood using a map.
2. Students can find on the map of Złotoryja the closest inactive volcano of our neighbourhood – Wilcza Góra.
3. Students describe the construction of the volcano using a graph.
4. Students carry out an experiment in the class group– a simulation of the volcanic eruption.
5. Students create an artwork entitled "Volcano".

## WORK METHODS

- directed conversation
- brainstorming
- simulation
- practical aspects of learning
- individual work

## FORMS OF WORK

Concerning the subject - cognitive, activating

Concerning the organization - individual, in group, with the use of tasks

### **TEACHING AIDS**

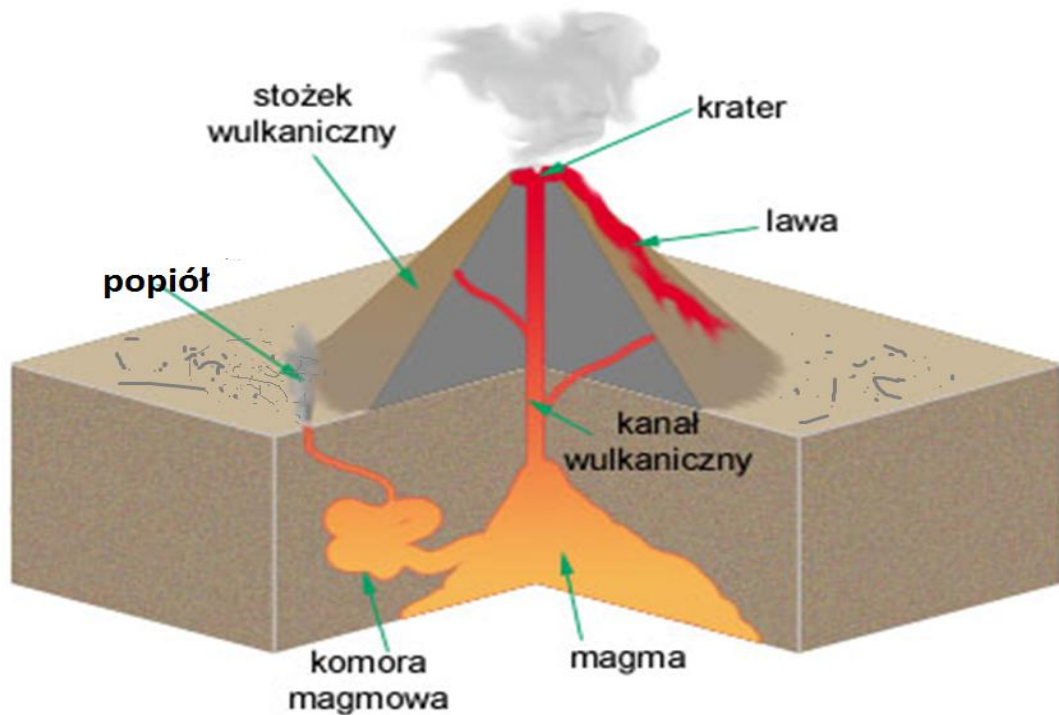
- wet sand or soil, vinegar, a plastic container, water, soda, dye, dish soap
- folders, a map of Złotoryja and surrounding area
- basalt grit
- a worksheet – simulation of a volcanic eruption
- a chart – a cross-section of a volcano
- labels with inscriptions
- an evaluation card summarizing the lesson
- a sketch- pad
- colorful dies
- poster paints
- a straw
- glue
- a projector
- a multimedia presentation about volcanos

### **THE COURSE OF THE LESSON**

#### *1. What is a volcano?- directed conversation, brainstorming*

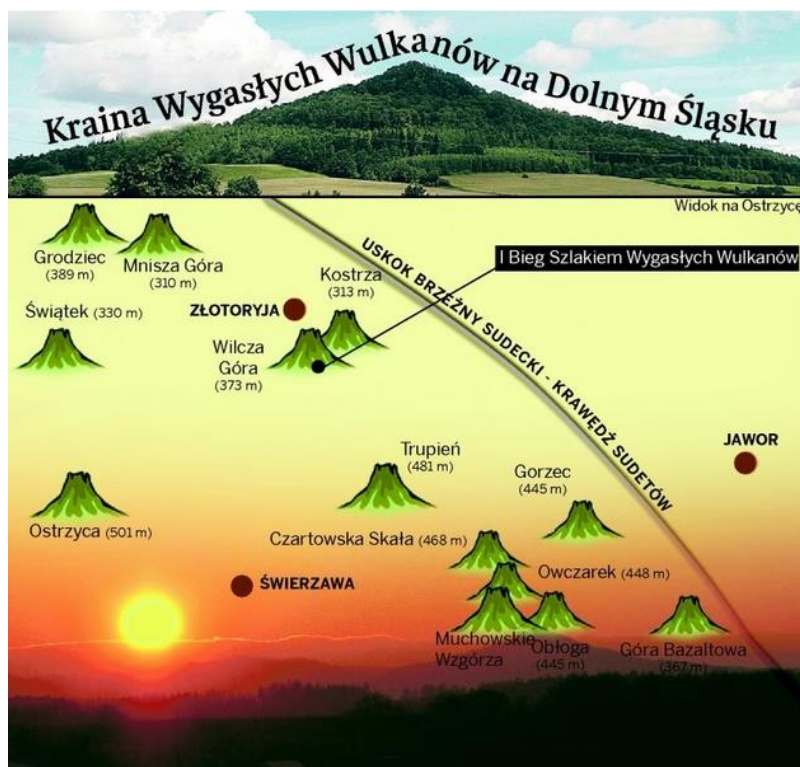
Students make their suggestions on the definition of a volcano, generalisation and summary of knowledge.

The teacher describes the construction of a volcano using a cross'section chart.



## 2. Volcanos in our neighbourhood..

With the help of a teacher students search the map for volcanic cones - Wilcza Góra, Czartowska Skala, Wielisławka, Ostrzyca, Grodziec. They have to find Wilcza Góra by themselves (it's in our town).



3. *Watching a multimedia presentation about volcanos.*

4. *Simulation of a volcanic eruption.*

*Students receive instructions to carry out the experiment – in attachment.*

*A description of the experiment:*

Shape a mountain out of wet soil or sand, make a hole at the top and place there the container (¼ glass of water, 1 teaspoon of soda, dye, dish soap). Volcanic eruption – pour ¼ glass of vinegar into the container. Due to combining vinegar with soda, carbon dioxide is released. The gas causes the increase of pressure in the container which leads to the eruption of the volcano and overflowing of lava. Similar phenomenon occurs within the Earth's crust.





### 5. Summary.

Students pick the right labels out of those associated with a volcano. The teacher can read the labels out loud.

LAVA	LAMA
HIGH TEMPERATURE	FEVER
ERUPTION	EROSION
ERUPTION	BOMB
CRATER	CRATE
ASH	ASHLEY



### 6. Creating an artwork according to the teacher's description.

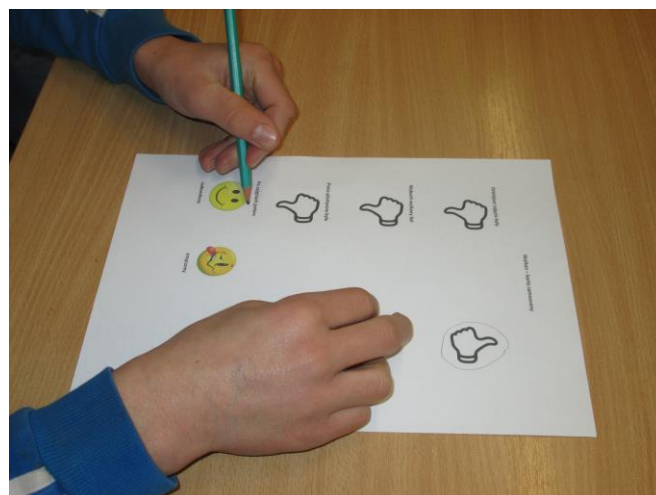
Student sketch a volcanic cone on a sheet of paper and spread some strong glue on it, eg. Vicol. They scatter some basal grit it and press on it. The excess grit should be removed. On the top of the cone students drizzle colourful dyes – yellow, red and orange, and blow on them through a straw imitating a volcanic eruption. Children decorate their works using paints.

Display of the works.



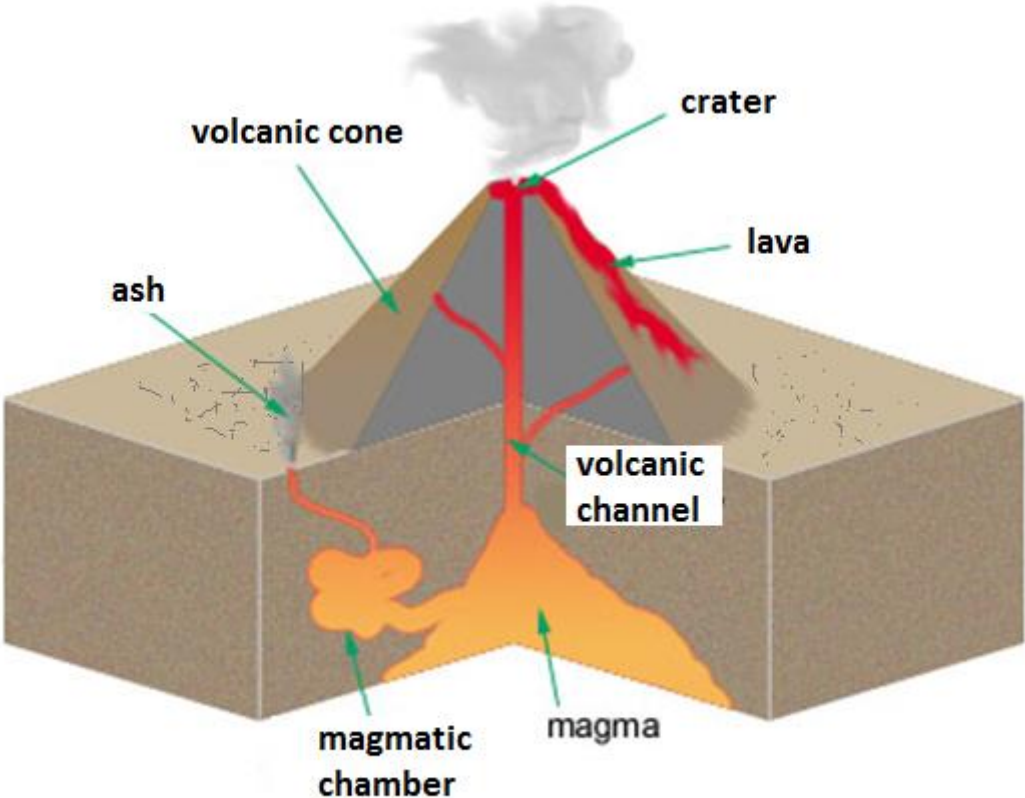
*7. Tidying. Students fill in the self-evaluation cards – the questions are read out loud by the teacher. Saying goodbye.*

The classes are concluded with a trip to the Wilcza Góra Nature Reserve.



**Attachments:**

**A cross-section of a volcano**



Worksheet – simulation of a volcanic eruption

## Experiment – volcanic eruption



→  
shape



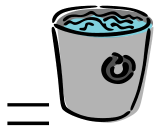
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in



make a hole and place  in it.

Now pour

1/4



# And what happens?



## Self-evaluation card

### Volcano – self-evaluation card

Today's lesson was



The volcanic eruption was



The artwork was



After the lesson I am:



satisfied



tired



I don't know

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