

The Earth Exam Style Questions 2

1. A group of pupils want to investigate weathering. They completely fill a milk bottle with water and seal the lid. They soak a piece of sandstone in water and place the sandstone in a plastic bag. Both the milk and sandstone are put into a freezer for 24 hours.



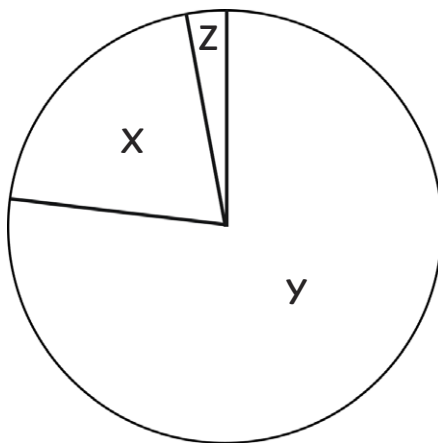
After 24 hours, the milk bottle was retrieved from the freezer. The water had become ice and the bottle was cracked.

- What type of physical weathering is shown?
- Explain why the bottle has cracked.

On retrieving the sandstone, the pupils noticed no change. They decided to return it to the freezer for another 24 hours.

- Explain what would happen to the sandstone as the water froze over a longer period.

2. A pie chart representing the gases in the Earth's atmosphere is shown below. What gases are X, Y and Z?



X -

Y -

Z -

The Earth Exam Style Questions 2 Answers

1. A group of pupils want to investigate weathering. They completely fill a milk bottle with water and seal the lid. They soak a piece of sandstone in water and place the sandstone in a plastic bag. Both the milk and sandstone are put into a freezer for 24 hours.

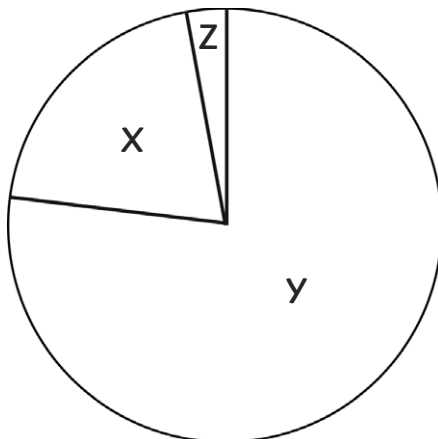


After 24 hours, the milk bottle was retrieved from the freezer. The water had become ice and the bottle was cracked.

- What type of physical weathering is shown? **Freeze-thaw**
- Explain why the bottle has cracked. **As the water froze, it expanded. Having no space to expand into, it forced the bottle to crack open.**

On retrieving the sandstone, the pupils noticed no change. They decided to return it to the freezer for another 24 hours.

- Explain what would happen to the sandstone as the water froze over a longer period. **Gradually, the sandstone would begin to crumble and crack.**
2. A pie chart representing the gases in the Earth's atmosphere is shown below. What gases are X, Y and Z?



X - **Oxygen**

Y - **Nitrogen**

Z - **Carbon dioxide and other gases**