



Practice Worksheet on Volcanoes

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Subject: Earth Science

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Long Answer Questions

1. Describe what lava is and its properties.
2. Explain how volcanoes are formed and the different types of volcanoes.
3. Describe how plate tectonics causes volcanic activity.
4. Explain what happens during a volcanic eruption and its effects.
5. Describe the image provided
6. Interpret the meaning of the image
7. Explain how volcanic eruptions affect landscapes and communities.

8. Analyze the artistic representation of the provided image

Multiple Choice Questions

1. What is lava?

- a) Water
- b) Molten rock
- c) Sand
- d) Ice

2. Where does lava come from?

- a) Ocean
- b) Volcano
- c) Mountain
- d) Cave

3. What temperature is lava?

- a) Cool
- b) Hot
- c) Cold
- d) Lukewarm

4. What event is depicted in the image?

- a) Earthquake
- b) Volcanic eruption
- c) Landslide
- d) Flood

5. What is the dominant color in the image?

- a) Blue
- b) Orange
- c) Green
- d) Purple

6. What geographical feature is shown in the image?

- a) Ocean
- b) Valley
- c) Plain
- d) Desert

7. How would you describe the movement of the lava?

- a) Calm
- b) Dynamic
- c) Static
- d) Passive

8. What is the artistic medium of the provided image?

- a) Photograph
- b) Digital art
- c) Painting
- d) Drawing

Answer Key

Long Answer Questions - Expected Responses

1. Describe what lava is and its properties.

Expected Answer: Lava is molten rock that is expelled from a volcano during an eruption. It is extremely hot and can cause significant damage.

2. Explain how volcanoes are formed and the different types of volcanoes.

Expected Answer: Volcanoes are geological formations that form when magma from the Earth's mantle rises to the surface and erupts. They can be active, dormant, or extinct.

3. Describe how plate tectonics causes volcanic activity.

Expected Answer: The movement of tectonic plates causes the Earth's crust to shift and collide, which can lead to volcanic activity. The pressure from the magma forces it upwards through cracks in the Earth's surface.

4. Explain what happens during a volcanic eruption and its effects.

Expected Answer: Volcanic eruptions are powerful and destructive events that can release lava, ash, gases, and other materials into the atmosphere. They can cause damage to property and even loss of life.

5. Describe the image provided

Expected Answer: The image depicts a landscape with a river of lava flowing through a valley surrounded by mountains. The setting sun casts a warm, orange glow on the scene.

6. Interpret the meaning of the image

Expected Answer: The image likely represents the aftermath of a volcanic eruption

where lava flows through a mountain valley. The orange hue suggests that it may be either dawn or dusk.

7. Explain how volcanic eruptions affect landscapes and communities.

Expected Answer: Volcanic eruptions can significantly alter the landscape, creating new landforms like volcanic cones, calderas, and lava flows. They can affect the environment and nearby communities.

8. Analyze the artistic representation of the provided image

Expected Answer: The image is artistically created, digitally rendered and is not a photograph of a real-life event. It is a creative representation of volcanic activity.

Multiple Choice Questions - Correct Answers

1. What is lava?

Correct Answer: Molten rock

2. Where does lava come from?

Correct Answer: Volcano

3. What temperature is lava?

Correct Answer: Hot

4. What event is depicted in the image?

Correct Answer: Volcanic eruption

5. What is the dominant color in the image?

Correct Answer: Orange

6. What geographical feature is shown in the image?

Correct Answer: Valley

7. How would you describe the movement of the lava?

Correct Answer: Dynamic

8. What is the artistic medium of the provided image?

Correct Answer: Digital art