Weathering Erosion Deposition Worksheet

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Part 1: Building a Foundation

What is the primary difference between physical and chemical weatherening?

Hint: Consider how each type affects the composition of rocks.

- ◯ A) Physical weatherening involves chemical changes, while chemical weatherening does not.
- ◯ C) Physical weatherening breaks rocks into smaller pieces without changing their composition, while chemical weatherening alters the mineral composition.
- ◯ D) Physical weatherening is caused by biological factors, while chemical weatherening is caused by temperature changes.
- ◯ C) Physical weatherening changes the mineral composition, while chemical weatherening breaks rocks physically.

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Which of the following are agents of erosion? (Select all that apply)

Hint: Think about natural forces that can move soil and rock.

- ☐ A) Water
- ☐ C) Ice
- ☐ D) Sunlight
- ☐ C) Wind

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Describe the process of deposition and its role in forming new landforms.

Hint: Consider how materials are dropped off by natural forces.

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Hint: Consider how sediment is laid down in different environments.

List two examples of landforms created by deposition and briefly describe how each is formed.

Hint: Think about where you might see these landforms in nature.

1. Example 1: Delta

2. Example 2: Beach

Which type of weatherening is most likely to occur in a humid, tropical climate?

Hint: Consider the effects of moisture and temperature on rock breakdown.

- ◯ A) Physical weatherening
- ◯ C) Biological weatherening
- ◯ D) None of the above
- ◯ C) Chemical weatherening

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Part 2: Application and Analysis

A farmer notices increased soil erosion on their farmland. Which of the following practices could help reduce erosion?

Hint: Think about agricultural practices that maintain soil integrity.

- ◯ A) Removing all vegetation
- ◯ C) Increasing the slope of the land
- ◯ D) Over-irrigating the fields
- ◯ C) Implementating crop rotation

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In a coastal environment, which processes are likely to contribute to the formation of sand dunes? (Select all that apply)

Hint: Consider the natural forces at play in coastal areas.

- ☐ A) Wind erosion
- ☐ C) Glacial movement
- ☐ D) Tidal action
- ☐ C) Water deposition

In a coastal environment, which processes are likely to contribute to the formation of sand dunes? (Select all that apply)

Hint: Consider the natural forces that shape coastal landscapes.

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Describe a real-world scenario where deposition has significantly altered a landscape, and explain the factors that contributed to this change.

Hint: Think about rivers, lakes, or coastal areas.

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Which of the following scenarios best illustrates the relationship between weatherening, erosion, and deposition?

Hint: Consider the sequence of processes in a natural setting.

- ◯ A) A rock being broken down by wind, transported by a river, and forming a delta.
- ◯ C) A glacier melting and creating a lake.
- ◯ D) A mountain being uplift by tectonic forces.
- ◯ C) A rock being dissolved by acid rain and remaining in place.

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Analyze the effects of deforestation on the erosion process. (Select all that apply)

Hint: Consider how vegetation removal impacts soil stability.

- ☐ A) Increases soil stability
- ☐ C) Reduces the amount of organic material available for biological weatherening
- ☐ D) Has no impact on erosion rates
- ☐ C) Leads to increased runoff and soil erosion

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Part 3: Evaluation and Creation

Evaluate the potential impacts of climate change on weatherening and erosion processes. (Select all that apply)

Hint: Consider how changing climates affect natural processes.

- [ ] A) Increased chemical weatherening due to higher temperatures
- [ ] C) Increased erosion due to more frequent extreme weather events
- [ ] D) Reduced biological weatherening due to loss of vegetation
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Propose a comprehensive plan to manage erosion in a hilly agricultural region, considering both natural and human-induced factors.

Hint: Think about sustainable practices and community involvement.

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Compare and contrast the processes of erosion and deposition, highlighting how they can occur simultaneously in a river system.

Hint: Consider the flow of water and sediment transport.

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