

Bellringer REVIEW:

- How long does it take to form an arch or other geologic structures?

Learning Objectives:

- I can interpret the different types of mass movement/wasting based on observations.

Check for Understanding Questions:

- What are the most dangerous mass movement of earth?
- What is the fastest type of mass movement/wasting?
- What is the slowest type of mass movement/wasting?

MASS MOVEMENT

People often assume that the earth beneath them is terra firma, a solid foundation in which they can build their lives. Much of the Earth's surface is dangerous, unstable ground, land capable of moving downslope in the matter of seconds to weeks. Geologists refer to the gravitationally caused downslope transport of rock, regolith (soil, sediment, and debris), Snow, and ice as mass movement, or mass wasting. Like earthquakes, volcanic eruptions, storms, and floods, mass movements are a type of natural hazard, meaning a natural feature of the environment that can cause damage to living organisms and to buildings.

Types of Mass Movement

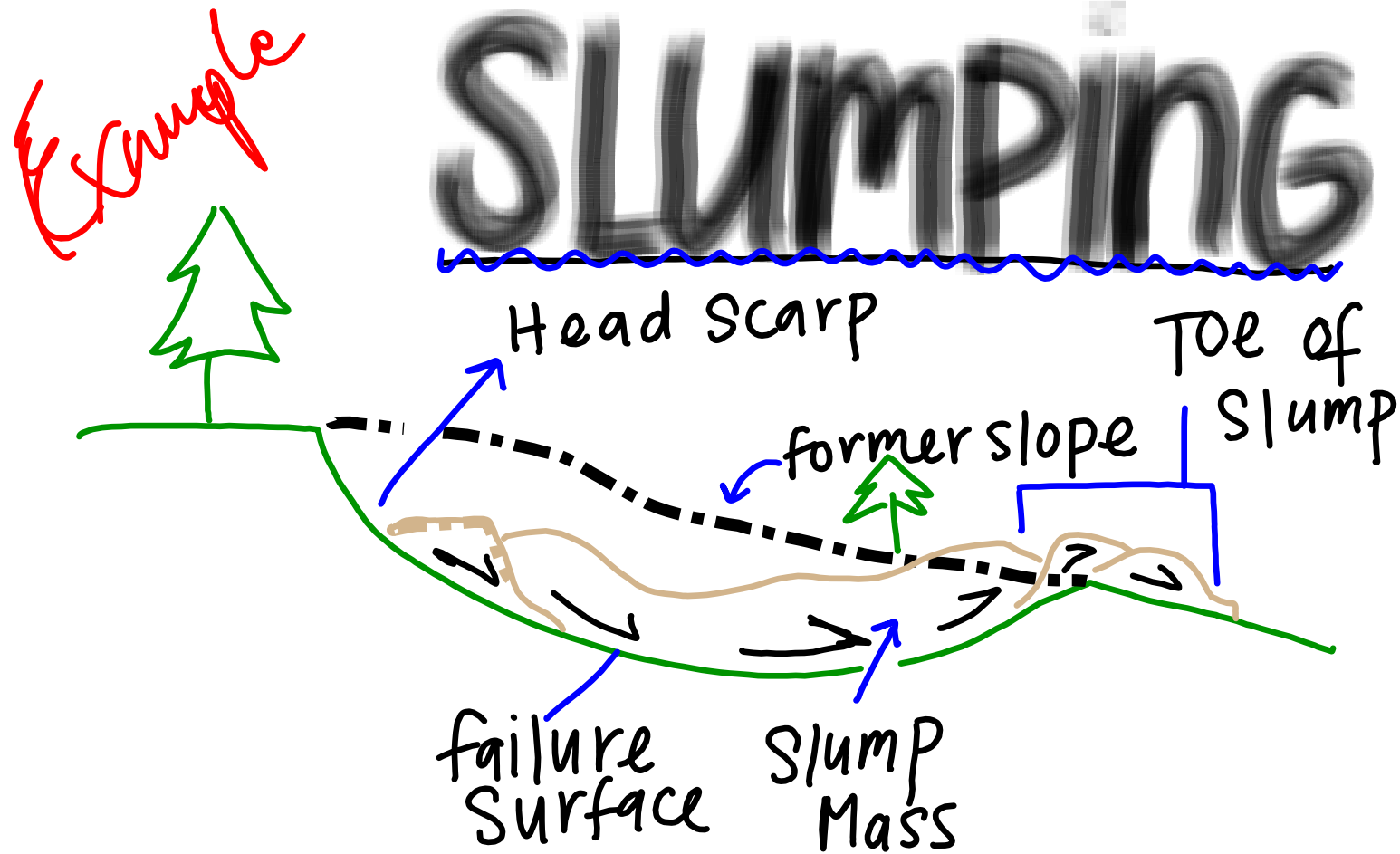
- Creep and Solifluction
- Slumping
- Mudflows, Debris Flows, and Lahars
- Landslides (rock and debris slides)
- Avalanches
- Rockfalls and Debris Falls
- Submarine Mass Movements

Activity:

Make a poster, rap, poem, drawing, etc. to present your given term.

Make sure to . . .

- Be creative
- Tell us what causes it to move
- Tell us how fast it moves
- and what dangers exist or damage is caused?



Take-home Message

Geologists distinguish among different kinds of mass movement according to the speed and character of the flow. Slow movements include creep, solifluction, and slumping.

Mudflows and debris flows move faster, and avalanches and rockfalls move the fastest. All mass movements are hazards. Submarine occurrences may generate tsunamis.

Check for Understanding Questions:

- What are the most dangerous mass movement of earth?
- What is the fastest type of mass movement/wasting?
- What is the slowest type of mass movement/wasting?

Learning Objectives: Did you accomplish them?

- I can interpret the different types of mass movement/wasting based on observations.

Self-Evaluation

- How well did you understand the material today?
(1-Lost, 2- understand, 3-can teach it)
- How well did you and your team members participate in class?
(1-didn't do anything, 2-Bare minimum, 3-fully participated)