

Geology 12: Mass Wasting

Name: _____

Chapter 13

1. Define Mass wasting. p. 326

2. What type of mass wasting is very slow and which type is very rapid?

Very Slow:

Very Rapid:

3. How does mass wasting affect humans?

4. Complete the chart on Mass Wasting below p. 328

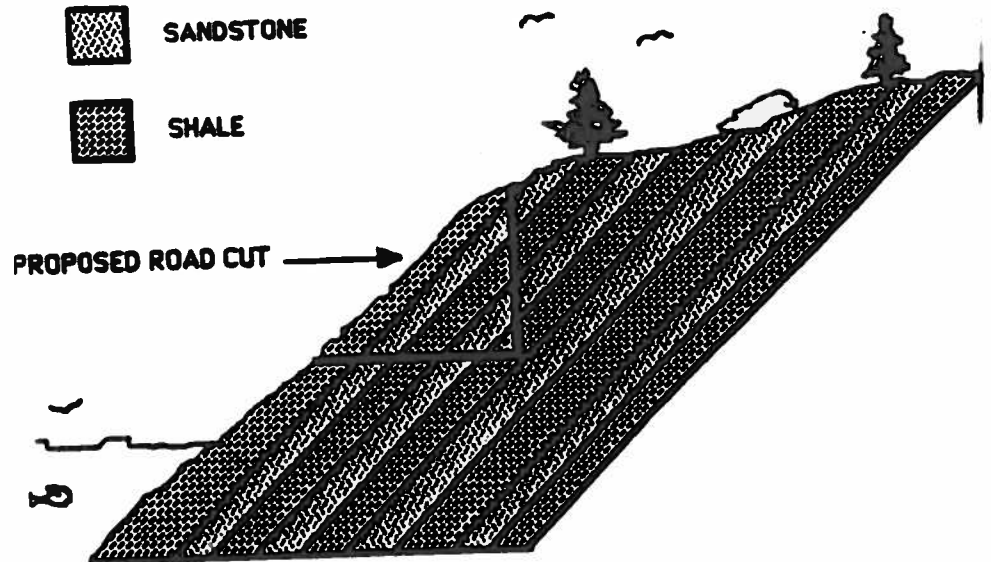
Type	Description (Type of Movement)	Examples
Flow		Creep Debris Flow Avalanche
Slide		Rock Slide Landslide
Fall		Rock Fall Debris Fall

5. How does water affect mass wasting? P. 331

6. Read How can we prevent landslides? etc. p. 342 – 344 and complete the assignment on the other side of this sheet.

Geology 12

You are Joe and/or Jolle Geologist, a landslide expert. The highways department has cut a road through a landslide area. You are to review the facts and propose a solution, or solutions. You should use drawings to help explain your answers.



Problem 1 (5 marks)

The rock unit is steeply dipping shale with interbedded sandstones. The shale slides along the bedding planes and results in downward movement of the shales.

Your Analysis (Type of Mass Movement): _____

Solution: _____

Diagram of Solution(s):

Problem 2 (5 marks)

The sandstone unit acts as an *aquifer*. This water acts as a lubricant and enhances downward slope movement.

Your Analysis (Type of Mass Movement): _____

Solution: _____

Diagram of Solution(s):

Problem 3 (5 marks)

The shale weathers quickly and this results in unconsolidated rocks which fall down due to gravity.

Your Analysis (Type of Mass Movement): _____

Solution: _____

Diagram of Solution(s):

1

