Physical Geology
South Sevier High School
Lecture Notes – Chapter 9

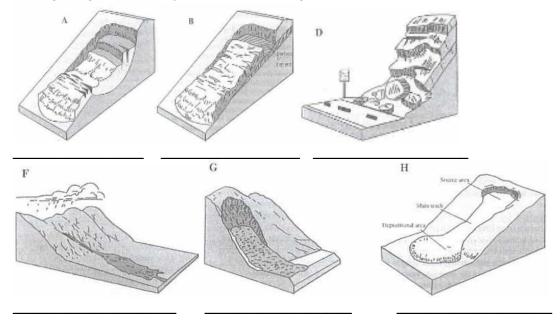
	Name
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1. A basic law of Geomorphology is "Whatever the Earth builds up, the Earth destroys. What does this mean (5pts)?

2.	pull of	ovement of masses of bedrock, rock debris or so	il, driven by the
3.	have been fa all other geologic and weather hazards	more costly in the U.S., in terms of both lives a combined.	nd dollars, than
4.	. Mass wasting is, with proper planning, geologic hazards.	perhaps the most easily	_ of all major
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- 5. The types of mass wasting are based on what three factors?
 - a.
 - b.
 - C.
- 6. Name the situation that would cause a mass wasting episode based on the following contributing factors:
 - a. Slope angle
 - b. Local relief
 - c. Thickness of soil over bedrock
 - d. Orientation of planes of weakness in bedrock
 - e. Ice in ground
 - f. Water in soil or debris
 - g. Precipitation
 - h. Vegetation

7. Label the following images with the type of mass wasting depicted.



8.	in soil	is the slowest-moving form of mass wasting. Major contributing factors include water ad daily freeze-thaw cycles.		
9.	Name three types of damage caused by the mass wasting named in number 8 (3pts).			
	a. b. c.			
10.	Match	e type of mass wasting with its correct definition.		
		Debris flow Mudflow Debris avalanche Rockfall Rockslide Rock avalanche Rock avala		
11.		is the flow of water-saturated soil over impermeable material.		
12.	12. Case Study. Answer the following questions in regards to the "Disaster in the Andes" Landslide (10 pts).			
	a.	Vhen did the landslide happen?		
	b.	Vhat was the most probable cause?		
	c. What triggered the landslide?			
	d.	approximately how much material moved?		
	e.	low far did the debris travel?		
	f.	low fast did the debris move?		
	g.	Vhat three cities were buried?		
	h.	low many people died in the landslide?		
	i.	Vas this the first landslide to strike this area?		
	j.	low can Geology aid in preventing another disaster such as this one?		
13.	What	be of mass wasting episode destroyed the "Old Man of the Mountain" in New Hampshire?		
14.	Name	ree different ways to prevent mass wasting from occurring (3pts).		
	a.			
	b.			
	C.			

15. How is mass wasting different from erosion (5pts)?
16. What control does the size of the material have on mass wasting (5pts)?
17. Explain the effect of water on mass movement (5pts).
18. How has our understanding of mass wasting been used to interpret the landscapes of Mars (5pts)?
19. How does human activity promote mass wasting events (5pts)?
20. Why isn't the land surface of Earth flat after millions of years of erosion and mass wasting (5pts)?