Chapter 7.1 GLACIAL EROSION AND LANDFORMS NAME

TYPES OF GLACIERS

1.	In order for a glacier to form, more snow needs to fall than what
2.	How does snow turn into glacial ice?
3.	Which glacier type flows in all directions and cover almost everything?
4.	Which glacier type moves down valleys between mountains?

HOW GLACIERS MOVE

5.	5. If ice is distorting and the top layer moves faster than the bottom, this kind of movement is called			
	-			
6.	. Basal slip happens because a	nd	reduce friction under the glacier	
7.	. True or False: All glaciers move at the same speed			

Matching:

8.	Crevasses	А	End of the glacier (low in valley)
9.	Head of glacier	В	Place where snow is packing and ice is forming (above snowline)
10.	Foot of glacier	С	Giant chunk of glacial ice floating in water
11.	Zone of accumulation	D	Deep cracks at the top of a glacier
12.	Zone of wastage	Е	Accumulation and wastage are equal (same size)
13.	advancing	F	A piece of ice breaks off the end of a glacier
14.	retreating	G	Start of the glacier (high on mountain
15.	Remain stationary	Н	Place where glacier ice melts away (below snowline)
16.	Calving	I	Wastage is greater than accumulation (getting smaller)
17.	iceberg	j	Accumulation is greater than wastage (getting bigger)

DRAW A LINE TO CONNECT THE PHRASES

18. If accumulation is winning... The glacier remains the same size

19. If wastage / ablation is winning... The glacier grows

20. If accumulation and ablation are equal.... The glacier shrinks

21.	How much of an icel	berg is visible above the water?	
<u>GL</u>	ACIAL EROSION		
Wha	at are the 2 ways gla	ciers erode? Define each	
22.		23.	
24.		25.	
26. '	Why does water leav	ving a glacier often look "milky?"	
27.	If you look at striatio	ons, what can you tell about the glacier?	
Wha	at 4 factors influence	e the rate of glacial erosion?	
1 .			
2			
3			
4			
28.		e the land to the greatest degree, what should those factors be like?	
<u>LAN</u>	NDFORMS FORME	ED BY GLACIAL EROSION	
29.	If a river erodes a va	ılley, what shape is it?	
30.	If a glacier follows th	ne path of an old river and then erodes it, what shape is the valley?	
31. ነ	Why are side valleys	not as deep?	
32. '	What are these high	er valleys called?	
33.	In summertime, wha	at might form at a hanging valley?	
		does a cirque take?	
35. '	What is the difference	ce between an arête and a horn?	

GLACIAL DEPOSITION

What are the 2 types of glacial drift? Define them.

36.	37.
38.	39.

40. Rocks moved by a glacier that are different from the underlying bedrock are called ______

MORAINES, OUTWASH PLAINS, AND KETTLES

50. Each glacial period lasted about ______ years.

41. Which moraine is in the middle?	
42. Which moraine is on the sides?	
43. Which moraine is at the very end of the glacier?	
44. Which moraine forms a gently rolling plain from randomly dropped rocks?	
45. What are the red lines in the picture on page 196?	
46. Would you find giant rocks in an outwash plain?	
47. If an ice block gets buried in drift (sediment) and then melts, what forms?	
48. How is an esker made?	
49. What shape do eskers take?	

51. How much of Earth's land was covered during the peak of the last ice age? _____