

Glaciation KO

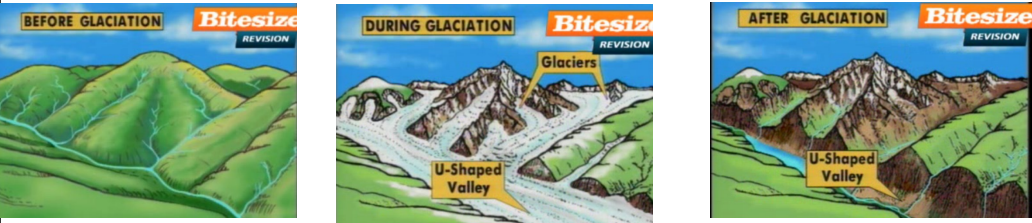
key terms

Ice sheet	
Ice field	
Glacier	
Freeze-thaw	
Plucking	
Abrasion	

How do Glaciers form?

Reorder the following stages of glacier formation.

- The compression turns the snowflakes into denser glacial ice.
- Snow will now continue to build on this glacial ice.
- As the snow continues, the weight begins to compress the snow.
- Firstly snow flakes accumulate in a hollow part of a mountain.
- The now heavier glacier will move down the hillside eroding the surface beneath it.



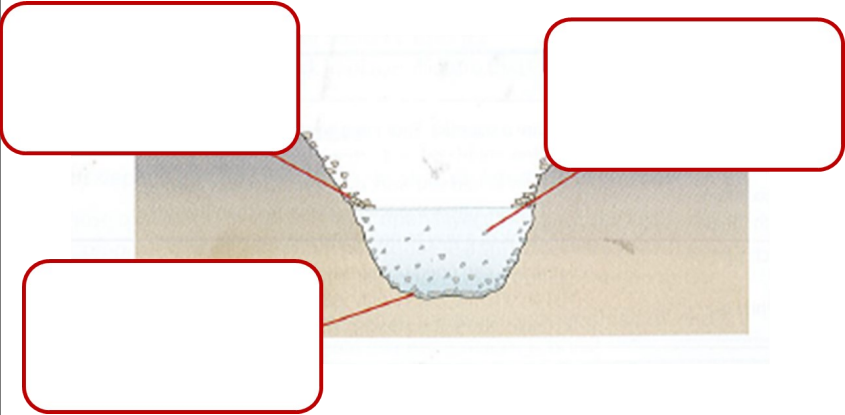
Use the images above to describe how glaciers change the landscape.

Process of glaciation

Match up the definitions

Erosion	Breaking down of material by the action of the weather.
Weathering	Movement of material from one place to another.
Transportation	Wearing away of the rock at the surface.
Deposition	Putting down of material somewhere else.

Complete the diagram to show how material is **transported** by a glacier.



Explain **two reasons** why glaciers begin to melt and deposit the load they have been carrying.

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Landforms shaped by erosion

Landform	Diagram	How does it form?
U-shaped valley		
Arête		
Corrie		
Pyramidal Peak		
Ribbon Lake		

Landforms shaped by deposition

Moraine	Ground = Lateral = Terminal =
Erratic	
Drumlin	

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Life in a glacial environment

1. Describe the hazards associated with glacial environments _____

2. How have humans adapted to life in glacial environments? _____

3. List at least three job opportunities in glacial environments

Due to glacial environments _____ this is causing sea level's to _____. This is happening at the rate of _____ and will affect _____ the most.

The effects of this will be

Climate Change:

1. The temperature on earth has risen by _____ since the late 19th century.

2. Global sea level rose about _____ in the last century.

3. The waters around the UK have warmed by around 1°C over the last _____ years.

4. On average, glaciers have thinned by over _____ metres since 1980.

5. Since 1990 there has been a _____ increase in carbon dioxide in our atmosphere.

Give at least one change for each glacial environment

Name	How is it being impacted by climate change?

