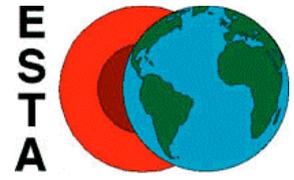


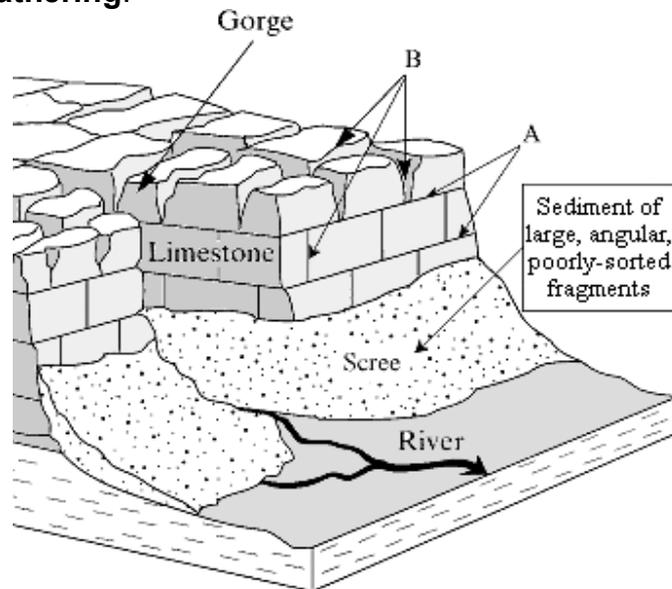


## Extension Question: Sedimentary Processes



**E.4 Figure 4** shows a limestone cliff, in an upland area of Northern England, which is undergoing **weathering**.

**Figure 4**



- (a) (i) Name the boundaries (**A**) that split the limestone into horizontal layers.  
 (ii) Name the vertical cracks (**B**) that help split the limestone into blocks.
- (b) Describe a simple test to identify limestone.
- (c) In the table below are statements that refer to *either Weathering or Erosion*. Complete the table by writing Weathering or Erosion in the spaces provided.

Statement	Weathering OR Erosion
Breakdown of rock without it being moved	
Wearing away of rock during transport of rock particles	
A process caused by wind, running water and moving ice	
An effect of plant roots growing in rock joints and fractures	

- (d) Using the clues in **Figure 4**, describe **one** process that might be responsible for producing the large, angular, poorly sorted fragments in the *Scree* sediment collecting at the bottom of the cliff.
- (e) Describe how the following three characteristics of rock fragments from the scree will change as they are picked up and transported downstream by the river.

Characteristics	Changes that take place during transport
(i) size	
(ii) shape	
(iii) sorting (range of grain sizes)	