

### Suggested answers to Georiddle

(ii) The **tabulated history** is as follows:

Present day planation	
Glacial erosion and deposition	T
Faulting (with fault breccia formation)	L
Tertiary sill intrusion	U
Upper Carboniferous Coal Measure sedimentation	A = S
Lower Carboniferous coral sea sedimentation	F
Basal conglomerate (Lower Carboniferous or Devonian)	H
Late Caledonian granite intrusion	C
Folding and low grade metamorphism (Caledonian)	
Middle Ordovician turbidity current sedimentation	N=B
Mid-Ordovician pillow lava extrusion	E=P
Cambrian sedimentation	R
Precambrian basement	W

(iii) When the students have established the correct sequence, and the formula of Galena (Pb S) is 'removed' from the succession, the remaining letters spell WRENCH FAULT. (See the tabulated history above)

(iv) The **cross section** should look roughly as shown in Figure 2.

### Figure 2: Completed cross-section