

Location D

To the right of the smooth surface dipping towards you at the south end of the quarry there is an eroded cleft that dips downwards from right to left.



Is it a bedding plane, joint surface or fault?

HINT:

- Joint surface = one of multiple cracks in rocks which do not offset other structures, so the rocks on either side are identical.
- Bedding plane = plane separating layers of sedimentary rock which may differ in grain size, composition and

texture and which do not offset other structures, so the rocks on either side are identical.

- Fault planes usually occur singly and cut across other structures, offsetting them on either side.

Measure the strike and dip (including direction of dip) of the fault plane.

TIP:

The surface is overhanging so it is quite difficult to get a reading.

It should be easiest using the **compass-clinometer** in the app toolbox.

If you use a traditional compass-clinometer, you may find it helpful to have someone else hold a clip board or notebook firmly against the surface so that it projects out from the rock face, providing a convenient shelf from which you can take a reading.

You have now completed the exercise at Kendell End Quarry. If you would like to practice some more, make your way to Barnt Green Road Quarry (Location 2 on the map) where there is an unusual structural feature to see.