DISCOVER THE GEOLOGY OF THE WESTMORLAND DALES

Smardale Gill Local Geological Site Limestone, limekilns and wild flowers

What you can see here

- Large disused limestone quarry and limekilns, part of Smardale Gill National Nature Reserve
- Lovely views and rich industrial heritage and wildlife



Parking at Smardale car park (Cumbria Wildlife Trust)

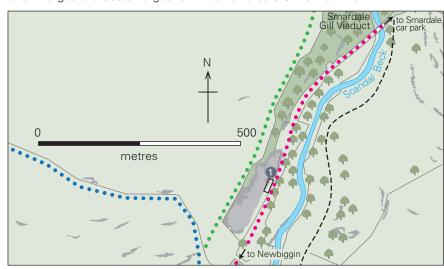
Footpaths from Smardale car park and Newbiggin-on-Lune. The site is beside a good footpath along the old railway line

🛕 Take care near the rock faces, steep slopes and limekilns

This large disused quarry in Smardale Gill is a superb place to see the local limestone and natural and industrial features linked to the geology. The quarry and limekilns lie beside the old Stainmore railway, now a footpath. Between 1861 and 1962 the line linked north-west and north-east England. Limestone from the quarry was burnt in the kilns and the resulting lime loaded on to trains.

The quarry is in the Ashfell Limestone Formation, part of the Great Scar Limestone Group which formed in the early Carboniferous Period when northern England was covered in shallow tropical seas. Limy mud on the sea floor hardened into layers (beds) of limestone. Some beds are rich in fossils of corals and brachiopod shells.

Today, the quarry is an important limestone grassland habitat where orchids and other rare plants thrive. The wild flowers attract butterflies, including the northern brown argus and Scotch argus for which Smardale Gill is well known.



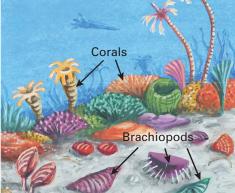
- ••••• Public right of way
- · · · · Coast to Coast Walk
- ••••• Permitted footpath
- --- Path on Access Land
- Limekilns beside old limestone quarry

Images

- One of the two limekilns, with the old limestone quarry beyond
- A fossil-rich layer in limestone beds close to the footpath
- A Carboniferous sea full of animals now preserved as fossils







Millions of years ago								
2.6	145	251	299	333		488	542	
Neogene Palaeogene Cretaceous	Jurassic	ias	Carboniferous	Devonian	Silurian	Ordovician	Cambrian	Formation of the Earth Precambrian 4600

Quaternary (a series of glaciations and warmer intervals, up to present day)

In this geological timeline the coloured intervals indicate periods represented by rocks and features at this site







