Glossary

Alluvial	Sediments, which may be gravel, sand, silt or mud, which
	have been transported and deposited by rivers
Ammonoid	A subclass of molluscs with coiled shells belonging to the
	class Cephalopoda
Anticline	Arch-shaped fold of rocks, closing upwards
	Sedimentary rocks composed of of very fine grain silt or
Argillaceous rocks	clay-sized particles (<0.0625 mm), usually with a high
	content of clay minerals
Armour-Stone	Large stone block used in coastal defence and other
	engineering works
Auropla	Area surrounding an igneous intrusion affected by
Aureole	metamorphic changes
	A dark-coloured, fine-grained, usually extrusive, igneous
Basalt	rock composed of minerals rich in iron and magnesium and
	with a relatively low silica content
	A large body of intrusive igneous rock with no visible floor
Batholith	Biostrome A layered, sheet-like in situ accumulation of
	organisms Bituminous Rich in hydrocarbons or bitumen
Bivalve	A class of molluscs with paired shell valves
Blanket Bog	An extensive area of peat bog
-	A gravity anomaly calculated after corrections for latitude,
Bouguer Anomaly	elevation and terrain.
Brachiopod	A phylum of solitary marine shelled invertebrates
	A river consisting of a number of small channels separated
Braided Rivers	by bars
	Coarse-grained clastic sedimentary rock consisting of
Breccia	angular fragments of pre-existing rocks
	A rock composed of both angular and rounded fragments of
Breccio-conglomerate	pre-existing rocks. It is intermediate in character between a
C C	breccia and a conglomerate
	A term used in NW England for breccias and conglomerates
Brockram	of Permo-Triassic age
Bryozoa	A phylum of small aquatic colonial animals
Calc-silicate	A group of minerals consisting of calcium silicates
	A dense, microcrystalline form of silica which occurs as
Chert	nodules or beds within parts of the Carboniferous
	succession of rocks
Chronostratigraphy	The standard hierarchical definition of geological time units
	A property of rocks such as slate, whereby they can be split
	into thin sheets along aligned fractures or planes produced
Cleavage	by the pressures that affected the rocks during severe earth
	movements
Columnar jointing	The crudely polygonal system of vertical joints formed in
Columnar jointing	response to cooling of bodies of intrusive igneous rocks
	such as sills and dykes
Conglomerate	Coarse-grained clastic sedimentary rock composed of
	rounded or sub- rounded fragments of pre-existing rocks

Continental shelf	The gently sloping offshore zone, extending usually to about 200 metres depth
Crinoid	Or 'sea lillies' are marine animals composed of calcareous plates, belonging to the phylum Echinodermata
Cross-bedding	Internally inclined layers in a rock related to the original direction of current flow
Cupola	A dome-shaped offshoot rising from the top of a major igneous intrusion
Desiccation cracks	Or shrinkage cracks are polygonal cracks formed in a sediment as it dries out in a terrestrial environment
Displacement	The relative movement on either side of a fault plane
	Or sink hole, is a steep-sided enclosed depression in a
	limestone region Dolomitic limestone A limestone containing
Doline	a high concentration of the mineral dolomite Dolomitisation
	The process by which limestones are wholly or partially transformed into dolomite
	A valley produced by running water but which is presently
Dry valley	streamless
Duke	Discordant, sheet-like bodies of intrusive igneous rock in a
Dyke	vertical, or near-vertical orientation
	Sedimentary deposit of minerals formed by natural
	evaporation Fault A fracture in rocks along which some
Evaporites	displacement has taken place Feldspar A group of rock-forming minerals consisting of silicates of aluminium,
	sodium, potassium, calcium and more rarely barium
	A general term used to denote fine-grained acid or
Felsite	feldspar-rich igneous rocks
	The tendency of a rock, such as a shale or slate, to split
Fissile	readily into thin sheets along closely spaced bedding or
	cleavage planes
Gangue	Generally valueless mineral or rock which accompanies an ore
	Molluscs belonging to the class Gastropoda, usually with
Gastropod	coiled shells
Gouge	Broken rock, often shale or clay, in a mineral vein or
Couge	between fault planes
	A group of extinct colonial marine organisms. Generally
Graptolite	placed in the phylum Chordata, but sometimes regarded as Coelenterata. They consist of one or more branches or
	stipes in which individuals in the colony occur in rows
	A sandstone containing a high proportion of silt, clay and
Greywackes	rock fragments in addition to quartz grains
Hornfels	A fine-grained rock that has been partly or completely
	recrystallised by contact metamorphism
Hydrothermal	Processes involving hot ground waters. Includes the
	formation of mineral veins and the associated alteration of rocks in the formation of flat deposits
Inlier	An outcrop of older rocks surrounded by rocks of younger
	age
Joints	A fracture, or potential fracture, in a rock adjacent to which
	there has been no displacement

Lamprophyre	A group of intrusive igneous rocks characterised by abnormally high contents of silicate minerals such as biotite, hornblende and augite, with generally small amounts of feldspar
Lapilli-tuff	A compact rock composed of small pieces of lava or ash rounded during eruption
Lithified	Literally 'changed to stone'. Applied to loose sediment which has been consolidated to a solid rock
Lithology	The character of a rock expressed in terms of its mineral composition, structure, grain size and arrangement of its constituents
Magma	Molten rock
Magnetic anomaly	The value of the local magnetic field remaining after the
magnetio anomaly	subtraction of the dipole portion of the earth's field
Marl	An old term loosely applied to a variety of sediments which typically consist of intimate mixtures of clay and calcium carbonate
Metamorphism	Change in the mineralogy and structure of a rock as a result of the effects of heat and/or pressure
Millet seed grains	Smooth and conspicuously rounded sand grains which resemble millet seeds. Commonly with frosted surfaces resulting from wind action in desert environments.
Monocline	A one-limbed fold on either side of which the strata are
	horizontal or dip at only low angles
Mountain building	The complex series of geological processes which create mountains
Nunatak	An isolated mountain peak projecting from an ice sheet
Oolitic limestone	A limestone consisting predominantly of sub-spherical,
Contic innestone	sand-sized, concentric grains, or ooids, composed of calcite or dolomite
	Small arthropods belonging to the subclass Ostracoda,
Ostracod	having a twin shell
	A remnant of a younger rock surrounded by older strata
Outlier	Palaeomagnetic The magnetic characteristics of a rock
	formed in the geological past Pegmatite An igneous rock of
	especially coarse grain size
Phenocryst	Large crystals, usually of near perfect shape, embedded in a fine-grained matrix in igneous rocks
	Volcanic eruptions generated by the interaction between hot
Phreatic	magma and surface or ground water
	A cleaved metamorphic rock characterised by a silky lustre
Phyllites	due to minute flakes of white mica which are too small to be
	seen by the naked eye
Pisolitic limestone	A limestone consisting predominantly of sub-spherical,
	concentric grains larger than 2mm in diameter, or pisoliths, composed of calcite or dolomite
	The term applied to igneous rocks which contain isolated
Porphyritic	crystals, or phenocrysts, larger than those forming the main
	body of the rock
Pseudomorph	A secondary mineral, or a random aggregate of secondary minerals, which have replaced a pre-existing mineral, but
- seadomorph	have retained its shape

Radiometric dating	The method of determining the geological age by measuring the relative abundance of parent and daughter isotopes in rocks
Rendzina	A brown earth soil of humid or semi-arid grassland that has formed over calcareous parent material. Small scale ridges and troughs formed by the flow of water
Ripple marks	or wind over unconsolidated sandy or silty sediment. The fossilised equivalent of ripples found today on beaches and river sands
Rottenstone	Any highly decomposed but still coherent rock
Sedimentary rocks	Rocks formed by the accumulation of fragments from the wasting of previous rocks or organic materials, deposited as layers of sediment
Sill	A tabular igneous intrusion with concordant contacts with the
Sink hole See doline	surrounding wall rocks
	A fine-grained metamorphic rock derived mainly from
Slate	mudstone or shale, and which splits, or cleaves, readily into very thin sheets as result of the re-alignment of its constituent minerals during metamorphism
	The definition and description of the stratified rocks of the
	Earth's crust Streak The name given to the colour of the
Statigraphy	powder of a mineral or rock Stromatolite A laminated,
	mound-like structure, built up over long periods of time by
	successive layers or mats of algae or bacteria, which have trapped sedimentary material
Supergene	Alteration formed near the surface
Syncline	A concave-upwards fold with the youngest rocks in the
Synchine	centre
Syngenetic ore	A deposit formed simultaneously with the host rock and by
Tailings	similar or mineral deposit processes Fine-grained waste from mineral processing operations
Throw	The amount of displacement on a fault
Trilobite	Extinct marine arthropods characterised by having a segmented oval body divided into three segments
Tufa	A porous or cellular deposit of calcium carbonate deposited from lime- rich springs
Tuff	A rock formed of compacted volcanic fragments
Turbidity current	A dense sub-marine flow of mixed water and sediment, capable of very rapid movement
	A substantial break in the succession of stratified
Unconformity	sedimentary rocks following a period when no deposition was taking place
Volcaniclastic	A rock containing volcanic fragments in varying proportions
Xenolith	A foreign inclusion in an igneous rock