

- GRIT.** A provincial name for a coarse-grained sandstone.
- GYMNOSPERMOUS.** Gymnosperms form one of the five divisions under which the vegetable kingdom is now classified. The name is derived from the seeds being naked, *γυμνος*, *gymnos*, naked, and *σπέρμα*, *sperma*, a seed. To this group belong the natural orders Coniferae which are exogens and Cycadaceae which are endogens.
- GYP SUM.** A mineral composed of lime and sulphuric acid, hence called also *sulphate of lime*. Plaster and stucco are obtained by exposing gypsum to a strong heat. It is found so abundantly near Paris, that plaster of Paris is a common term in this country for the white powder of which casts are made. The term is used by Pliny for a stone used for the same purposes by the ancients. The derivation is unknown.
- GYPSEOUS**, of or belonging to gypsum.
- GYROGONITES.** Bodies found in freshwater deposits, originally supposed to be microscopic shells, but subsequently discovered to be the seed-vessels of freshwater plants of the genus *Chara*. See above p. 742. *Etym.*, *γυρος*, *gyros*, curved, and *γονος*, *gonos*, seed, on account of their external structure.
- HEMIPTERA.** An order of insects, so called from a peculiarity in their wings, the superior being coriaceous at the base, and membranous at the apex, *ἡμισυ*, *hemisu*, half, and *πτερον*, *pteron*, wing.
- HORNBLende.** A simple mineral of a dark green or black colour, which enters largely into the composition of several varieties of the Trap-Rocks.
- HORNSTONE.** A siliceous mineral substance, sometimes approaching nearly to flint, or common quartz. It has a conchoidal fracture, and is infusible, which distinguishes it from compact felspar.
- HUMERUS.** The bone of the upper arm.
- HYDROPHYTES.** Plants which grow in water. *Etym.*, *ὑδωρ*, *hydor*, water, and *φυτον*, *phyton*, plant.
- HYPOGENE ROCKS.** Those rocks which are *nether-formed*, or which have not assumed their present form and structure at the surface, such as granite, gneiss, &c. This term, which includes both the plutonic and metamorphic rocks, is substituted for *primary*, because some members of both these classes, such as granite and gneiss, are posterior to many secondary or fossiliferous rocks. *Etym.*, *ὑπο*, *hypo*, under, and *γίνομαι*, *ginomai*, to be formed or produced.
- ICEBERG.** Great masses of ice, often the size of hills, which float in the polar and adjacent seas. *Etym.*, ice, and *berg*, German for hill.
- ICHTHYOSAURUS.** A gigantic fossil marine reptile, allied in part of its structure to a fish. *Etym.*, *ἰχθυς*, *ichthus*, a fish, and *σαύρα*, *saura*, a lizard.
- IGNEOUS ROCKS.** All rocks, such as lava, trap, and granite, known or supposed to have been melted by volcanic heat.
- INCANDESCENT.** White hot — having a more intense degree of heat than red heat.
- INDUCTION.** A consequence, inference, or general principle drawn from a number of particular facts or phenomena. The inductive philosophy, says Mr. Whewell, has been rightly described as a science which ascends from particular facts to general principles, and then descends again from these general principles to particular applications.
- INFUSORY ANIMALCULES.** Minute living creatures found in many *infusions*; and the term *infusori* has been given to all such animalcules, whether found in infusions or in stagnant water, vinegar, &c.
- INSPISSATED.** Thickened. *Etym.*, *spissus*, thick.
- INVERTEBRATED ANIMALS.** Animals which are not furnished with a back-bone. For a further explanation, see "Vertebrated Animals."
- ISOTHERMAL.** Such zones or divisions of the land, ocean, or atmosphere, which have an equal degree of mean annual warmth, are said to be isothermal, from *ισος*, *isos*, equal, and *θερμη*, *therme*, heat.
- JOINTS.** Fissures or lines of parting in rocks, often at right angles to the planes of stratification. The partings which divide columnar basalt into prisms are joints.
- JURA LIMESTONE.** The limestones belonging to the Oolite Group constitute the chief part of the mountains of Jura, between France and Switzerland; and hence the geologists of the Continent have given the name to the group.