- Facts, means of investigation, i. 18. Faults in stratification, i. 40. Ex-
- tent and frequency of, 42. Felspar, proportion of oxygen in, i. 25. Component parts of, 31.
- Ferrybridge, interesting fact near, ii. 30.
- Fir tree, highest in England, ii. 40.
- Fishes, paucity of fossil, i. 86. Decompose more readily, 86. Where they are found, 87. The four orders, according to their scales, 89.
- Fluviatile deposits, i. 322.
- Forbes, Professor, on thermal springs, ii. 224.
- Forest, Black, surrounded by saliferous deposits, i. 192.
- Forests, subterraneous and submarine, ii. 30. Trees burned in the course of a river, 30. Turf moors, 35. Antiquity of, 37.
- Forster, Mr. Westgarth, his arrangement of Newcastle coal district, i. 157.
- Formations, ancient valley, i. 317.
- Forchhammer, Dr., his suggestion on ancient submarine springs, i. 195. His views on "boulder" formation, 287.
- Fossil Saurians, table of, i. 93. Mammalia, 100. Plants, 69. Zoophyta, 73.
- Fourier, M., his treatise on heat, ii. 275.
- Fox, Mr. R., his electrical theory, ii. 161. On the veins of Cornwall, 125. On fissures, 160. On the changes of metallic bodies by electrical currents, 87
- France, rocks developed in, i. 226. Coal deposits of, 172.
- Freyberg, metallic veins in the district of, ii. 139.

-, mines of, experiments in, ii. 232.

Friesland, lakes in, once wood, ii. 34. Frost, effects of, i. 325.

## G.

Galena, sublimation of, ii. 162.

Ganges, sediment in, ii. 8.

- Garnets found, ii. 103.
- Gasteropoda, genera of, i. 82.
- Geneva, Lake of, i. 332.
- Geology, objects of, i. 1. Means of investigation of, 6. Distinguished from Natural History, 6. Analogy

between the tertiary and modern periods of, 99. Popular views of, ii. 279. Economical applications of, 288.

- Geological intersector, i. 68. Map, ii. 282.
- Geological time, scale of, i. 8. Series of terms in the scale of, 14.
- Geological Theory, state of, ii. 239, et seq. Its physical geography, 248.
- Georges Gmünd, bones found at, ii. 19.
- Germany, warm springs of, ii. 218. -, Western, volcanos of, ii. 188.
- German Ocean, shells in, i. 253.
- Giant's Causeway, i. 63. 229.
- Globe, mass of, whence derived, i. 28. Structure of the external parts of, 33. The substance of, 23. The heat of, ii. 24.
- Gloucestershire, ii. 287.
- Gluchenberg, in Styria, ii. 199.
- Gneiss, system of stratified rocks, i. 57.
- Gneiss and mica schist system, i. 111. Composition of, 113. Organic life of, 118. Extent of country, 119. Physical geography of, 120. Igneous rocks of, 121.
- Gneiss, proportion of oxygen in, i. 25.
- Goldfuess, organic fossils described by, i. 139.
- Gordian, medal of, ii. 38.
- Graham's Island, ii. 179.
- Grampians, strata of, i. 37. Once uplifted, 148. Gneiss mountains, ii. 283.
- Granite, proportion of oxygen in, i. 25. Veins of, 109.; ii. 74. Once a melted fluid, 52. Composition of, 65. In the valley of Valteline, 61.
- Granitic basis of earth's crust, i. 109. Where universal, 109.
- Grauwacke system of stratified rocks, i. 56.
- Green, Mr., fossils described by, i. 139.
- Griffiths, Mr., his map, i. 166.
- Grit, millstone, i. 169.
- Guatimala, volcanos in, ii. 194.
- Gypsum, origin of, i. 195.

## H.

- Hall, Sir James, his experiments on limestone, ii. 52.
- Hamilton, Sir W., ii. 200. Harcourt, Mr. W. V., on heat, i. 124.
- Hardrow Force, i. 165.
- Harz, the, organic fossils from, i.