

- Clavalithes, 1591*
 Clay, definition of, 234; origin of, 140, 233; absorbent power of, 520
 Clays, red and gray, of deep sea, 767
 Clay-ironstone, 143, 256, 267, 1337
 — rocks, 233-235
 — slate, 235, 309, 323, 535, 543; metamorphism of, 1011, 1027; microlites and crystals in, 1027
 Claxby Ironstone, 1546
 Cleat of coal, 877
 Cleavage, due to pressure, 531; examples of, 532*, 533*, 536*; experiments in, 534; origin of, 534; compared with jointing, 879; relation of, to foliation, 908; strain-slip, 903
 Cleaved structure, 182
 Cleidophorus, 1240*, 1241
 Cleithrolepis, 1453
 Clemmys, 1674
 Cleodora, 1643
 Clepsydrops, 1401
 Cliff debris, 225
 Climacammina, 1342
 Climacograptus, 1206, 1236
 Climate in its geological relations, 49; indicated by organisms, 1086; in the Carboniferous period, 1341; in Jurassic time, 1477; indications of changes of, during Tertiary and post-Tertiary time, 1585, 1588, 1589, 1597, 1600, 1601, 1627, 1634, 1637, 1641, 1643, 1649, 1650, 1654, 1656, 1660, 1663, 1664, 1668, 1669, 1677
 Climatius, 1326
 Clinkstone, 289
 Clinochlore, 141
 Clinometer, 887
 Clinton group, 1288
 Cliona, 1257
 Clisiophyllum, 1343
 Clonograptus, 1245
 Clouds, formation of, 579
 Clyde Beds, 1712
 Clymenia, 1299
 Clypeaster, 1615
 Clypeus, 1461
 Coal, 251*; chemistry of, 548; columnar, 994; effects of depression upon, 505
 — Old Red Sandstone, 1327; Carboniferous, 1336, 1338; Permian, 1394; Triassic, 1440, 1442; Jurassic, 1491, 1512; Cretaceous, 1520, 1567, 1568, 1570, 1576, 1577, 1579, 1580; Eocene, 1609; Oligocene, 1626, 1630; Miocene, 1639, 1644
 Coal-basins, origin of, 1334
 Coal-measures, 1365, 1378
 Coal-seams, channels in, 843*, 845*; associated with fire-clay, 858; persistence of, 861; joints of, 876; alteration of, by igneous rocks, 974, 975, 995; mode of occurrence of, 1338; origin of, 1338; flora of, 1350
 Coast-barriers of detritus, 675, 763
 Coast-lines, 85; in relation to depth of sea, 786
 Coblenzien, 1305
 Cobus, 1674
 Coccoelite, 136
 Coccosteus, 1299, 1319*, 1320, 1328
 Cochliodus, 1347
 Cochloceras, 1445
 Cod, fossil, 1659
 Cœlaster, 1296
 Cœlenterates, fossilization of, 1080
 Cœloptychium, 1525
 Cœnites, 1260
 Cœnograptus, 1247
 Cœnopithecus, 1592
 Coking by eruptive rocks, 995
 Coldwell Beds, 1270
 Coleoptera, fossil, 1357
 Colloid condition of minerals, 120