

- cal work of, 740; affects climate, 740; erosive power of, 741; transporting power of, 754; currents of, *diffuse food of protozoa*, 758; general conservative influence of, 788; permanence of area of, 502, 1078, 1755
- Ocean-basins, antiquity of, 502, 771; probable permanence of, 502, 1078, 1750
- Ocean-currents, 576
- Oceanic circulation, theories of, 733
- Ochre, 128
- Octotomus, 1595
- Odontaspis, 1531, 1590, 1592*
- Odontopteris, 1351, 1397, 1453
- Odontopteryx, 1591
- Odontornithes, 1538
- Odontosaurus, 1441
- Oeningen stage, 1642
- Oesar, 1706
- Oesel zone, 1276
- Ogygia, 1216, 1238*
- Oil-shale, 253
- Oil-wells, 254, 401
- Oldhaven Beds, 1595, 1598
- Old Red Sandstone, 1312; geographical changes attendant on deposition of, 1291; rocks of, 1314; life of, 1316; volcanoes of, 347, 348, 443, 984, 1325; in Britain, 1321; in Norway, 1331; in Spitzbergen, 1332; in North America, 1332
- Oldhamia, 1205, 1207*, 1414
- Olea, 1612
- Oleandridium, 1458, 1568
- Olenellus, 1036, 1089, 1204*, 1208
- Olenellus-group, 1209, 1213, 1221
- Olenellus-zone, conformable strata beneath, 1165; in Scotland, 1179, 1217; in England, 1185; position of, 1199, 1213, 1214
- Olenidian group, 1209, 1213, 1215, 1220
- Olenoides, 1209
- Olenus, 1205*, 1209
- Oligocene, proposed by Beyrich, 1584; general characters of system, 1616; flora, 1616; fauna, 1617; in Britain, 1619; in France, 1623; in Belgium, 1626; in Germany, 1626; in Switzerland, 1628; in the Vienna basin, 1629; in Italy, 1630; in North America, 1630
- Oligoclase, 132
- Oliva, 1590, 1637
- Olivine, 137, 300, 301*, 620; in meteorites, 27
- Olivine-diabase, 295, 296
- Olivine-dolerite, 294
- Olivine-free-dolerite, 294, 295
- Olivine-gabbro, 294
- Olivine-rocks (schistose), 316
- Omosaurus, 1498
- Omphacite, 137
- Omphyma, 1237, 1261*
- Onchus, 1242
- Onondaga Limestone, 1310
- Salt group, 1288
- Ontario, Lake, area of, 1727; terraces of, 1730; unequal elevation of terraces of, 486
- Onychodus, 1311
- Oolite, 185, 262; formation of, in salt-lakes, 697
- Oolite, Great, 1482, 1492, 1505
- Inferior, 1482, 1489, 1506
- Oolites, Lower, 1482, 1486
- Oolitic formations, 1456, 1482
- structure, 185, 257, 262, 263*, 815, 1335
- Ooze, 245*, 766, 824, 825
- Opacite, 218
- Opal, 120, 127
- Operculina, 1611
- Ophiderpeton, 1359, 1401
- Ophidians, fossil, 1593
- Ophileta, 1036, 1213, 1241