

- 1767; cause of characteristic scenery of, 1776
- Alsophylla*, 1604
- Alteration of rocks (see under Metamorphism and Weathering)
- Alum, origin of, 237-238  
— slate, 237, 323, 1232  
— Bay, leaf-beds of, 1595, 1601
- Alumina, 115
- Aluminium, 113, 128
- Alveolaria, 1655
- Alveolina, 1600
- Alveolites, 1248, 1295, 1353
- Amaltheus, 1464, 1484\*, 1487\*, 1495\*
- Amazon, terraces of the, 669; seaward extension of sediment of, 681, 757; mineral matter dissolved in, 774
- Amber, 1079  
— beds of Königsberg, 1627
- Amblotherium, 1476
- Amblypterus, 1400
- Ambonychia, 1240\*, 1241, 1267\*
- America, active volcanoes of, 441  
— Central, volcanoes of, 336, 366, 369; oscillations of, 492  
— North, estimated mean height of, 76; extent of coast-line of, 85; fjords of, 493; deserts of, 560, 572; weathering in, 596; earth-pillars of, 603; buttes and bad lands of, 605; cañons of, 659\*, 662, 664\*, 1779\*; alluvial fans of, 666\*; river terraces of, 670\*; coast-bars of, 674; vanished lakes of, 686, 690, 1727; salt-lakes of, 689; frozen rivers and lakes of, 699; salt marshes of, 763  
— pre-Cambrian rocks of, 1194; Cambrian, 1226; Silurian, 1287; Devonian, 1309; Carboniferous, 1391; Permian, 1416; Trias, 1454; Jurassic, 1515; Cretaceous, 1574; Eocene, 1612; Oligocene, 1630; Miocene, 1645; Pliocene, 1675; glaciation of, 1688, 1723; post-glacial deposits in,
- 1750; physiographical evolution of, 1768
- America, South, estimated mean height of, 76; extent of coast-line of, 85; volcanoes of (see Andes); earthquakes of, 466, 474; upheaval of, 487; Trias of, 1454; Jurassic of, 1516; prehistoric deposits and extinct mammalia of the Pampas, 1751
- Ammonia, molybdate of, in testing rocks, 159
- Ammonites, 1452
- Ammonites, 1484\*, 1487\*, 1488\*, 1490\*, 1495\*, 1528\*; as type-fossils, 1090; early types of, 1399, 1411; abundance of, in Jurassic time, 1464; separation of, into families and genera, 1464; disappearance of, 1530
- Ammonites, acanthicus-zone, 1503  
— acanthus-zone, 1508  
— alternans-zone, 1515  
— anceps-zone, 1505, 1516  
— angulatus-zone, 1483, 1510  
— arbustigerus-zone, 1506  
— aspidoides-zone, 1505  
— astierianus-zone, 1544, 1567, 1570  
— auritus-zone, 1544  
— berriasensis-zone, 1503  
— bifrons-zone, 1507  
— bifurcatus-zone, 1510  
— bimammatus-zone, 1502, 1504  
— bisulcatus-zone, 1508  
— Blagdeni-zone, 1506  
— Bucklandi-zone, 1483, 1508, 1510  
— Burgundiæ-zone, 1509  
— calloviensis-zone, 1495, 1515  
— Calypso-zone, 1503  
— canaliculatus-zone, 1504  
— capricornus-zone, 1507  
— communis-zone, 1483  
— complanatus-zone, 1507  
— concavus-zone, 1513