

- Alcyonium, 431§
 Alcyonoids, 431§, 525
 Alder, 837, 922
 Alethopteris, 639, 645, 671, 685, 698, 699, 704, 756; discrepans, 622; gigas, 705; Helenæ, 645; lonchitica, 670*, 689; Serlii, 689; Whitbyensis, 791
 Aleutian Islands, 40, 296
 Alga, 56, 60, 72, 79, 140, 153, 156, 241; the earliest plants, 409*, 441, 454; in hot waters, 152, 308, 437, 441, 454
 Algeria, 920
 Algerite, 320
 Algonkian formation, 445, 447, 469
 Alleghany Mts., 41, 106, 188, 636, 638, 745; plants on summits, driven south by the ice, 946
 Alligator, 54, 55, 681
 Allodon, 768; fortis, 767*; laticeps, 767*
 Allomys, 918
 Allophane, 638
 Allorchestes, 347
 Allorisma subcuneata, 675*, 690
 Allosaurus, 766; medius, 836
 Alluvial cones, 99, 194§, 195*, 196
 Alluvium, 81§, 93, 191, 198, 200, 228, 366
 Almond, 921
 Alps, 23, 32, 110, 233, 234 (snow-line), 265, 266, 310, 367*, 368*, 391, 463, 738, 812, 943; coal-formation, 734; glaciers of, 235*, 236*, 237*, 239, 243, 244, 248, 251; great fault in, 734; section, east of Lucerne, 102*
 —, Archæan in, 363; Upper Silurian, 573; Triassic, 757, 768, 769, 773, 774; Jurassic, 774, 780, 791, 793; Cretaceous, 859, 864; Tertiary, 347, 367, 380, 919, 920, 921, 932 (upturning), 936 (elevation)
 Altai Mts., 32, 33, 200, 568, 569
 Altamaha grits, 891
 Alum Bluff sands, 890, 891
 Alum shale, 80§
 Alumina, 61§
 Aluminum sulphates, alums, 119, 126, 138, 294, 335
 Amaltheus ibex, 790; spinatus, 790
 Amargura Island, 296
 Amazon River, 24, 30; drainage area of, 172; eager, 212, 215; floods of, 177, 183; slope of, 173
 Amazonian group, 867
 Amber, 143, 838, 922
 Amblotherium, 789*
 Amblygonite, 449
 Amblypterus, 692, 702, 772
 Amblyrhiza inundata, 1001
 Ambocœlia gregaria, 621; umbonata, 598*, 601, 620, 621
 Ambonicardia Cookii, 837
 Ambonychia attenuata, 514; bellistriata, 507*; radiata, 511*, 516
 Ambry clays, 837
 Ambrym Island, 296
 American continent, North, growth of, 714-716
 Amia, 418, 901; Amia family, 783, 869
 Amianthus, 319§
 Ammodon beds, 894
 Ammonia, 124, 137
 Ammonites, or Ammonoids, 402, 424, 869; Devonian, 869 (first); Permian, 686; Triassic, 756, 757*, 771; Jurassic, 749, 755*, 759*, 760, 781* (number of British), 791, 792, 793, 861, 869; Cretaceous, 812, 818, 836, 841, 842*, 855, 861, 862*, 865, 867, 869, 877
 Ammonites, 757, 774, 916; acanthicus, 791; aspidioides, 790; Astierianus, 865; athleta, 791; auritus, 865; bifrons, 790; bimammatus, 790; bplex, 760, 791; Bucklandi, 790; Burgundiae, 790; canaliculatus, 790; complexus, 855; conavus, 760; cordatus, 790; cristatus, 865; decipiens, 790; Delawareensis, 854; Deshayesi, 864; discus, 790; ferrugineus, 790; Gallici, 866; Gaytani, 792; Gervillianus, 865; gigas, 791; Gowerianus, 790; Guadalupe, 855; Herveyi, 790; Humphriesianus, 790; ibex, 790; inflatus, 865; interruptus, 865; Jamesoni, 790; jugalis, 916; Jurensis, 790; Lamberti, 790; lautus, 865; Leonensis, 837; Lewesiensis, 862; M'Clintocki, 760, 792; macrocephalus, 790, 791; mammillaris, 865; Marie, 790; Mississippensis, 854; Mullanus, 855; Murchisonæ, 790; mutabilis, 790; Noricus, 865; Parkinsoni, 790, 791; pederialis, 836; peramplus, 866; placenta, 842*; planorbis, 790; pleurasepta, 855; plicatilis, 790; ptychoicus, 791; radians, 790; radiatus, 865; Rhotomagensis, 866; serpentinus, 790; spinatus, 790; suprajurensis, 791; Swalovi, 854; tenuilobatus, 790; Texanus, 855, 866; tricarinatus, 866; varicosus, 865; vespertinus, 867; Wosnessenski, 760
 Ammonium chloride, 294; nitrates, 118
 Ammosaurus, 753
 Amnigenia, 612§
 Amœba, 433; Amœboids, 419
 Ampelite, 81§
 Amphibamus grandiceps, 682, 683*, 692
 Amphibians, 54, 409* (time range), 414, 415, 416, 417, 681, 706, 795, 796
 —, Reign of, 460
 —, Relation to Mammals, 794
 —, Paleozoic, 725-726, 727
 —, Subcarboniferous, 643, 644, 645*, 700
 —, Carboniferous, 657, 661, 674, 681, 682, 683*, 684, 692, 693, 703, 704, 726
 —, Permian, 686*, 687*, 706, 869
 —, Triassic, 742, 751*, 758, 772*, 796, 869
 —, Jurassic, 760, 796
 —, Cretaceous, 826, 869, 870
 Amphibole, 67§
 Amphibolyte, 89§
 Amphigene, 85
 Amphigenia elongata, 579, 590
 Amphilestes, 789*; Broderipi, 789*
 Amphion, 500, 502, 516, 521; Canadensis, 502*
 Amphioxus, 418§, 725
 Amphipods, 420*, 421§, 438, 439§, 565, 707
 Amphitragulus, 926
 Amphitylus, 789*
 Amplexus, 552; Hamiltoniæ, 601
 Ampullina, Fischeri, 917; solidula, 916
 Ampyx, 481, 500, 520, 521; nudus, 519*, 520; Salteri, 520
 Amsopus Dewayanus, 751*; gracilis, 751*
 Amusium, 760, 917; Mortoni, 917; simplicum, 854, 855
 Amygdalocystites, 514
 Amygdaloidal cavities, 68, 98, 336, 337, 342
 — rocks, 78§
 Amygdules, 339
 Amynodon, 907, 918
 Amyzon beds, 886, 893
 Anabacia hemisphærica, 790
 Anacodon, 918
 Analcite, 68, 339
 Analyses of bones, 73; of coal (see Coal); coprolites, 73; corals, 72; granite, 82, 83; limestones, 78, 79; plants, 74, 75; shells, 72; volcanic rocks, 82-89
 Ananchytes, 59; ovalis, 854; ovatus, 860*, 866
 Anaptomorphus, 918; homunculus, 906*
 Anarthrocanna Perryana, 622
 Anastrophia, 562, 579; interplicata, 548*, 551, 569; Verneulli, 561*
 Anatifa, 420*, 421§
 Anatimya papyracea, 855
 Anchippodus, 904, 918; minor, 904*, 905
 Anchisauridae, 792
 Anchisaurus, 753; colurus, 753*
 Anchitherium, 911, 919, 927
 Anchor-ice, 232§
 Anchura abrupta, 854; Americana, 841*, 855
 Ancilla ancilllops, 916
 Ancodus, 918
 Ancyloceras, 760; gigas, 865; Matheronianum, 862*; Remondi, 760, 837
 Andalusite, 65*§, 66, 83, 310, 315, 318, 319, 449
 Andalusitic rocks, 82, 83, 84
 Andes, earthquake in, 349; glaciers in, 977; height of, 26, 296; slopes of, 27, 31; snow line of, 234; volcanoes, 296, 297
 —, Archæan in, 456; Carboniferous, 711; Jurassic, 760; Cretaceous, 857; Tertiary, 365, 392, 935; Quaternary, 392
 Andesite, 64§, 273
 Andesite, 86§, 87, 272, 273, 276, 301*, 304, 339, 341, 518, 811
 — rocks, 273, 274, 296