

- Sulphur, 63§, 70; in coals, 661, 663, 664
— springs, 125; in California, 385; in New York, 554, 555
Sulphuric acid, 63§; springs, 125, 555
Sulphurous acid, 63§, 124, 125, 324; from volcanoes, 278§, 293, 294
Sumatra, 22, 38, 40; volcanoes of, 297
Sun, a chief source of geological energy, 117; causes of the varying degree and effects of its heat, 253-257; its heat as related to the ocean's work, 166, 209, 214; as affecting the temperature and density of water, 214
— spots, 11-year cycle of, 177, 255
Sunderland Lake, 538
Superga, molasse of, 926
Superior, Lake, 29, 40, 85, 166, 200, 201*, 206, 483; basin, 106, 199; copper veins, 272, 323, 338, 339, 465, 466
Superposition, order of, 399, 400
Surcula, 916
Surficial, 198§, 272§
Surgent series, 728
Surirella craticula, 164*, 165
Sus, 54, 927
Susquehanna River, 388, 465, 730*, 731, 816
Sussex marble, 864
Swabia, 738
Swallows, 923
Sweden, Archæan in, 456; Cambrian, 482, 484, 518; Lower Silurian, 518, 519, 520, 521; Upper Silurian, 563, 564, 565, 568, 569, 573; Triassic, 769; Cretaceous, 833
Switzerland, Cretaceous in, 857, 859; Jurassic, 783; Tertiary, 920, 925, 926
Sydney sandstone, Australia, 221
Syenite, 85§; granite, 85§
Syenite, 85§
Syenitic gneiss, 85§
Synbathocrinus, 602
Synclines, 102§*, 103*, 104, 105*
Synclinorium, 380§, 729, 731
Syncoryne, 429*, 431
Synedra ulna, 164*, 165; vitrea, 699
Syornis, 1014
Syria, Cretaceous in, 857, 859
Syringodendron, 699
Syringopora, 551, 552, 567, 585, 704, 711; bifurcata, 567, 568; Hisingeri, 591, 592; Maclurii, 584*, 590, 592; multattenuata, 690; multicaulis, 550; retiformis, 550
Syringostroma columnare, 590; densum, 590
System of formations, 406§; of Mountain Ranges, 389; of the Rhine, De Beaumont's, 734
Systemodon, 903, 918; tapirinus, 903
Tabellaria, 163, 164*
Table mountain or mesa, 185, 186*, 300*, 937
Table Mountain, S. Africa, 699
Tachylyte, 87§
Tacoma, Mt., 240 (glacier), 296 (height), 945
Taconian, 446
Taconic limestone belts, 528-531
— Range, 24; making of, 386, 527-532; Cambrian of, 467, 483; Lower Silurian of, 490, 495, 517; metamorphism in, 309, 325
Tænia solium, 437§
Tæniaser spinosus, 505*, 514
Tæniphyllum, 633
Tæniopteris, 689, 698, 704, 750, 756; latior, 756; Lescuriana, 705; linneifolia, 749*; magnifolia, 756; multinervis, 705; Newberryana, 705; vittata, 705
Tahiti, thickness of coral reef, 150; denudation of, 180*; waterfalls at, 185; tide at, 212; lava streams thicker toward the interior, 290
Tahitian Islands, map of, 36*
Tainoceras cavatum, 691
Talc, 65, 67§, 68, 79, 89, 318, 320, 458
Talcuano, elevation at, 349
Tälchir group, 698, 699
Talcose schist, 89§; slate, 84, 89§
Talpa, 927
Tampa limestone, 391
Tancredia, 759, 760; Americana, 855; extensa, 760; Warreniana, 758*
Tanganyika (Lake), 33
Tanna Island, 296
Tantalum, 449
Tape-worm, 437§
Tapes, 916
Tapir, 54, 902, 931, 1002
Tapiravus, 919
Tapirus, 928; Americanus, 1001; Arvernensis, 927; Haysii, 1001; Indicus, 905*; priscus, 927
Tar, mineral, 712
Tarannon shales, 563
Tarawan Islands. See Gilbert
Tarawera eruption, 291, 305, 374
Tarn (Mt.), 858
Tasmania, 21, 415, 628, 937, 948 (fiords)
Taunusan, 626
Taxineæ, 596, 673
Taxites, 777, 840, 921; Olrikii, 921
Taxocrinus, 602; elegans, 505*, 514
Taxodium, 921, 922, 939; cuneatum, 833; distichum, 921; distichum Miocenium, 839
Taylor marls, 855
Tchad Lake, 34
Tecali, Mex., limestone, 133
Technocrinus, 577
Teeth, composition of, 72, 73
Tejon beds or group, 830, 831, 884, 885, 888, 889, 916
Teleoceras, 919
Teleodus, 918
Teleosaurs, 787
Teleosaurus, 790; Chapmanni, 790
Teleosts, 418§, 869; Cretaceous, 812, 843
Telephus, 521
Telerpeton Elginense, 772*, 773
Tellina, 916, 917; biplicata, 917; Grœnlandica, 934; linifera, 916
Tellinomya, 516; alta, 514, 516; Angela, 500; macheriformis, 550; nasuta, 507*; nucleiformis, 553
Tellurium, 331
Telmatherium, 918
Temiscaming Lake, 445
Temiscouata Lake, 533, 559
Temnocillus, 675; conchiferum, 690; crassum, 675, 676*, 690; depressum, 690; Forbesanum, 690; latum, 690
Temnocyon, 911, 918
Temperature, 52, 727, 877 (change, exterminating life); in Archæan time, 440, 441, 442; in mines, 257; of the ocean, 46§. See also Climate
Temple of Jupiter Serapis, changes of level, 348, 349*
Teneriffe, crater of, 277, 291
Tennessee, mean height of, 23; marble, 494, 524
— River, 540
Tentaculite limestone, 535, 552, 556, 557, 558, 559
Tentaculites, 556, 560
Tentaculites, 516, 562, 563, 586, 599, 626; attenuatus, 592; bellulus, 592; distans, 562; elongatus, 560, 579; gracillistriatus, 592, 620, 621; gyracanthus, 556*, 557; incurvus, 514; ornatus, 567, 568, 569; Oswegoensis, 514, 516; Richmondensis, 514; scalariformis, 590; scalaris, 625; spiculus, 620; Sterlingensis, 514; tenuistriatus, 516
Tephyryte, 87§
Terebellum fusiforme, 926; sopita, 926
Terebra, 916; Houstonia, 916; simplex, 917
Terebratula, 72 (analysis), 425§, 426*§, 756, 834, 856; angusta, 757; biplicata, 791, 865; bovidens, 690; Choctawensis, 837; digona, 779*; diphyia, 779*, 791, 793; diphyoides, 791; elongata, 707; fimbria, 790; fusiformis, 704; gracilis, 866; Harlani, 378, 840*, 854; hastata, 700*; impressa, 425*; Liardensis, 758; perovallis, 790; plicata, 840*, 854; sella, 791; semisimplex, 757; Sullivanti, 601; vitrea, 426*; Wacoensis, 837
Terebratula family, 585*, 779
Terebratulids, 922
Terebratulina Atlantica, 854; caput-serpentis, 426*; gracilis, 866; Guadalupæ, 855
Teredina personata, 925
Teredo, 158, 425
Termites, 158
Terrace formation, 992
Terrace period, 941
Terraces of rivers, lakes, and sea-shores, 193, 194*, 228, 943, 947, 981-994; height due mostly to height of flood, 194. See also Flood-grounds; Shore platforms