

- Thoughts on Mesozoic scenes, 197.
 " in creation repeated, 328.
 Thurmhofer mines, 439.
Thylacotherium, 189.
 Tide-wave on the molten earth, 51.
 " retards earth's rotation, 405.
 Time, geological, 156, 245.
 " " estimated, 245.
 " consumed in coal-making, 155.
 Tinière, cone of, 363.
Titanotherium Prouti, 208.
 Toledo, artesian wells at, 242.
 Tooth of time, 338.
 Torrents from dissolving glaciers, 222.
 Tournol on primeval man, 355.
 Trams and tramways, 143.
 Transitory character of physical things, 424.
 Transportation of drift by water, 222.
 Treelessness of prairies, 264.
 Tree-trunks in coal mines, 158, 159, 259.
 " " cretaceous deposits, 259.
 Trenton limestone mass, 134.
 Tresavean mine, 439.
 Triassic Age, 173.
 Triassic-Jurassic sandstone and tracks, 180.
 Trilobites, characters of, 80, 317.
 " of Trenton period, 108.
 " contents of the type of, 319.
Trocholites ammonius, 115.
 Tropical climates of early times, 197.
 Trunks of trees in mines, 158, 159.
 Tunnel at Chicago, 440.
 Tunnels in mining regions, 440.
 Turner's Falls, footprints from, 183.
 Turtles, advent of, 188.
 " cretaceous, 190.
 " Tertiary, 208.
 Tuscaloosa, shingle at, 223.
 Tylor, A., on Amiens gravel, 367.
 Type-metal, law of cooling of, 51.
 Types of animal structure, 101.
 " organic, succession of, 315, 316.
 " " unfolded upward and downward, 317.
 Types synthetic or comprehensive, 318.
 " retrospective, 320.
 Underground excursion, 139.
 Undulations of earth's crust, 162.
 Unfolding of organic life, 317.
 Uniformity in primeval times, 105.
 Unity in the growth of continents, 307.
 " of intelligence in creation, 320, 322.
 Universality of oldest formations, 58.
 Upheaval of islands, 23.
 " " Eozoic strata, 74.
 " " Appalachians, 162.
 Uranus and world-harmonies, 329.
 Urus, 360.
 Utah Lake, why salt, 295.
 Valenciana silver mine, 439.
 Valleys of erosion, 224.
 Vapor, igneous, primordial, 40, 416.
 " " existing examples of, 41.
 " aqueous, first appearance of, 53.
 Vastness of values in science, 421.
 Vegetable germs in drift, 270.
 " origin of petroleum, 281.
 Vegetation before animals, 66.
 " first arborescent, 128.
 " coal, luxuriance of, 153.
 " a purifier of the atmosphere, 160.
 Vegetation of Tertiary Age, 254.
 " " Cretaceous Age, 255.
 " destroyed by glacier, 218, 256.
 Venango County, Pennsylvania, 275, 292.
 Vertebræ of reptiles and fishes, 167, 188.
 " " " 188.
 " " Zeuglodon, 203.
 Vertebrate development converges in man, 375.
 Vertebrated animals, 102.
 " " earliest, 126.
 " " order of, 316, 326.
 " " prophetic of man, 375.
 Vestiges of Creation, 46, 325.
 Virgil on the Golden Age, 385.
 Vishnu, 384.
 Vitality of vegetable germs, 250, 260.
 Vogt on primeval man, 366.
 " " cooling of the earth, 403.
 Volcano of Santorin, 24.
 Volcanoes, beneficence of, 333.
 " outlets of heat, 404.
 Warlike implements of primeval man, 363.
 Washington, Mount, marks of submergence on, 229.
 Wastage of heat from the earth, 403, 404.
 Water, ordeal by, 18.
 " as a rock, 37.
 " " invisible vapor, 53.
 " labors of, 398.
 Water-sheds, 235.
 Watson, views by, 420.
 Watson, J. C., on precipitation of planets, 420.
 Waukesha, geology of, 125.
 Waverly rocks, position of, 127, 131, 165.
 Wealden reptiles, 188.
 Wells and springs, 233.
 " for oil, 284, 285.
 West Virginia oil region, 289, 292.
 " " salt works, 305.
 Wheat, Egyptian, from mummies, 261.
 Wheatley, C. M., on reptiles, 170.
 Whewell on the fate of the solar system, 419.
 Whistles in primeval times, 365.
 Whitney, J. D., on California geology, 221.
 Wilkesbarre, Pennsylvania, 156.
 Winter, universal, reign of, 402.
 Wisconsin lakes, geology of, 225.
 Wisdom and beneficence in coal-making, 160.
 Wood of Cretaceous Age, 259.
 " carboniferous, 259.
 Woodstock, Ontario, rocks of, 279.
 World-harmonies, 328.
 " thoughts, 323, 328.