Thompson, Mr., pentacrinus europæus discovered by, i. 432.

Thomas, Mr. R., map and sections of mining district near Redruth, i. 550. Tiedemann, on bones in star-fish, i.

441.

Tilgate forest, reptiles discovered by

Mr. Mantell in, i. 120.

Time, lapse of long periods universally admitted, i. 13; proof of long lapse of, i. 116; proof of lapse of, during deposition of strata, i. 377.

Torpedo, sossil in tertiary strata, i. 291. Torre D'Orlando, fishes perished sud-

denly at, i. 124.

Fortoises, number of existing families, i. 255; divisions of fossil ditto, i. 256; extent of fossil species, i. 256; marine species from Glaris, i. 257; fossil land species, rare, i. 258; footsteps of in Scotland, i. 259; freshwater species, locality of, i. 258.

Tour, supposed of a foreigner through

England, i. 1.

Tours, Artesian wells in chalk of, i. 566.

Townsend, Mr., on origin of springs, i. 560.

Trachelipods, two sections of, carnivorous and herbivorous, i. 297; carnivorous, perforate living shells, i. 298; carnivorous rare before the tertiary strata, i. 299; herbivorous, extend through all strata to the present time, i. 299; carnivorous succeeded to functions of extinct carnivorous cephalopods, i. 300, 312.

Trachyte, character and phenomena

of, ii. 7.

Trap, various phenomena of, ii. 6.

Transition series, history and extent of, i. 60; strata, character of their fossil

vegetables, i. 453.

Transmutation of species, disproved in the case of fishes, i. 294; theory of, opposed by trilobites and animals allied to them, i. 395; associated

with development by Lamarck, 585. Trevelyan, Mr. W. C., his discovery of coprolites near Leith, i. 199.

Trigonellites, are opercula of ammonites,

i. 618.

Trilobites, geographical and geological distribution of, i. 389; genera and species of, i. 391; history and structure of, i. 391; living animals allied to, i. 392, et seq.; eyes of, i. 396; physiological inferences from fossil eyes, i. 401, et seq.

Tryonix, fossil, localities of, i. 257.

Trygon, fossil in tertiary strata, i. 291. Tucker, his speculation as to possible existences in the interior of the earth, i. 57; his view of the relations of the world to man, i. 99.

Tufa, calcareous, local deposits of, ii.

11.

Turin, bones in museum at, i. 93.

Turrilite, character and extent of, i. 370.

Turtles, fossil, i. 256, 257.

Ulodendron, character of, i. 475. Unity, geological argument for the unity of the Deity, i. 582, 583, 584.

Val D'Arno, bones in fresh water formation of, i. 93.

Vapour, influence of, in causing eleva-

tions of land, i. 43.

Vegetables, study of fossil, important, i. 450; recent sub-marine, divisions of, i. 451; fossil sub-marine, divisions of, i. 452; terrestrial, geological distributions of, i. 452; remains of, preserved in coal formation, i. 457, 458; remains of in transition strata, i. 163, 459; genera, most abundant in coal, i. 479; proportions of families in coal formation, i. 480; remains of, in secondary strata, i. 490; remains of, in tertiary strata, i. 507; numbers of fossil and recent species, i. 521; characters of during the three great geological epochs, i. 520-522; connection of with physico-theology, i. 523.

Veins, mineral, origin and disposition of, i. 548, 550; most frequent in early rocks, i. 549; theories respecting origin of, i. 551; apparatus for production of, i. 570; granitic, intersecting older granite, ii. 4; of sienite, porphyry, serpentine and greenstone, intersecting other rocks, ii. 5; mineral, influence of electro-magnetic

action in, ii. 107-109.

Vertebrata, represented by fishes in the transition formation, i. 62.

Vision, organs of, in conchifers and radiata, i. 605.

Volcanos, present effect of, i. 47.

Volcanic forces, their effects on the condition of the globe, i. 49.

Volcanic rocks, frequent in tertiary strata, i. 89; of modern formation, ii. 7.

Voltz, M., on mantellia from Luneville, i. 492; has discovered opercula of ammonites, i. 618.