- Araucaria, fossil in coal formation, i. 486; peculiarity in structure of, i. 486; fossil trunks near Edinburgh, i. 487; fossil in Lias, i. 487; localities of living species, i. 488.
- Argonauta, its origin still doubtful, i. 313.
- Armadillo, habit and distribution of, i. 144; fore-foot of, adapted for digging as in the megatherium, i. 154; bony armour resembling that of megatherium, i, 160—162.
- Artesian wells, method of obtaining, i. 561, 568; examples of action of, i. 562; where most available, i. 563; cause of rise of water in, i. 564—567; temperature of water in, i. 567; extensive application of, i. 568; Chinese manuer of boring without rods, i. 568; great importance of, i. 569.
- Articulata, earliest examples of, i. 62; remains of fossil, i. 386; four classes in all fossiliferous formations, i. 412; changes in families of, i. 412.
- Artois, artificial fountains in, i. 562— 566.
- Asaphus, i. 391.
- Asaphus caudatus, fossil eyes of, i. 398.
- Aspidorhynchus, i. 276.
- Asterophyllites, abundant in coal, i. 479.
- Atmospheric pressure, sudden changes of fatal to fishes, i. 126.
- Atmosphere, functions of in circulation of water, i. 557, 570; ancient state of illustrated by eyes of fossil trilobites, i. 402.
- Atoms, ever regulated by fixed and uniform laws, i. 11; ultimate, indivisible nature of, i. 576.
- Audouin, M., wing of corydalis in iron stone discovered by, ii. 77.
- Auvergne, eggs in lacustrine formations of, i. 86; fossil animals found in lacustrine formations of, i. 86; extinct volcanos of, ii. 8; indusize in fresh water formation of, i. 119.
- Axis of rotation, coincides with shorter diameter of the globe, ii. 39.
- BABBAGE, Prof., on the obligation of the moralist to the philosopher, i. 591.
- Bacon, Lord, his view of the distinct provinces of reason and revelation, i. 589.
- Baculite, character and extent of, i. 366.

- Baker, Miss, belemnite in her collection, i. 375.
- Bakewell, Mr., his views of the extent of animal life, i. 101.
- Balistes, spines, action of, i. 291.
- Basalt, various phenomena of, ii. 6.
- Basins, strata of various ages disposed in form of, i. 527; mechanical operations producing, i. 528.
- Bat, toes compared with those of pterodactyle, i. 231.
- Bears, bones of, in caves of Germany, &c. i. 94; bones of, in caves near Liége, i. 597.
- Beaufort, Captain, on bottles sunk in the sea, i. 346.
- Beaumont, M. Elie de, elevations observed by, ii. 6.
- Beaver, chisel-shaped structure of its incisors, i. 149.
- Becquerel, M., on crystals produced under influence of electrical currents, i. 552.
- Beechy, Captain, ammonites found by, in Chili, i. 336.
- Beetles, remains of in colitic series, ii.78.
- Beetle, converted to chalcedony from Japan, ii. 78.
- Beetle stones, from coal shale, near Edinburgh, i. 199.
- Beginning, meaning of the word in Gen. i. 1. i. 19, 21; proofs of in phenomena of primary stratified rocks, i. 53; conclusions respecting necessity of, i. 58; existing and extinct species shewn to have had, i. 53, 55, 59; geological evidences of, i. 585, 586.
- Belcher, Captain, his observations on iguanas, i. 243.
- Belcher, Captain, ammonites found by, in Chili, i. 336.
- Belemnites, geological extent of, i. 371; writers on the subject of, i. 371; structure and uses of, i. 372; a compound internal shell, i. 372; chambered portion of, allied to Nautilus and Orthoceratite, i. 373; ink bags connected with, i. 373, 374; causes of partial preservation of, i. 377; its analogy to shell of Nautilus and to internal shell of Sepia, i. 378; large number of species of, i. 379.
- Belemno-sepia, proposed new family of cephalopods, i. 374.
- Bentley, his contradiction of the epicurean theory of atoms, i. 579.
- Bermudas, strata formed by the action of the wind in, i. 127.