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Vegetable

Kingdom, comprehends every thing that has life, but neither motion nor feeling—from the lowly mushroom, the fern and the mose to the towering oak, and the cedar of Lebanon-from the microscopic plant to the majestic Baobab with its diameter of thirty feet. In duration they are as remarkable, some flourishing for a few days, others for thousands of years. The Olea fragrans reserves its sweetness for the midnight hour, and the night-flowering Cereus turns night into day. It begins to expand its sweet-scented blossoms at twilight, it is full-blown at midnight, and closes with the dawn of the morning, never to open again. The variety of plants is also very great. One hundred thousand distinct species have already been described, and every day accessions are made to that number. The adaptation of living structures to the varicties of soil and climate, and the relation of plants to each other, render the study of Botany (Borann a plant) interesting to all, especially to the young is furnishing continued proofs of Divine The laws by which the vegetable creation goodness and wisdom. is regulated, are simple and easily comprehended. Economy of causes and exuberance of effects,—simplicity of laws and complexity of results,--order, harmony and beauty-are everywhere manifested in all branches of Natural History. How noiselessly do the flowers exhale their rich perfume, or the trees of the forest rear their majestic heads. Every plant has its place. Monopolies obtain not among them; colours of every hue adorn them, not merely for ornament but for use. Different shades of colour absorb varying degrees of heat. Different plants require different degrees of heat to bring their seeds to perfection. Though latent heat is evolved by the various transmutations that take place in the interior of plants,—they, like animals, having a tendency to a temperature of their own, independent of external circumstances,—yet they receive nearly all their heat from the same source, the sun. The exact amount of caloric requisite for each plant is thus supplied, while God has so adapted our perception of the beautiful that the varied hues of plants no less than the blending colours of the "bow of promise," increase our happiness and deepen our veneration. The language of the heart is "There's not a flower or shrub that grows, but shows its Maker God." Many curious phenomena are presented in the vegetable kingdom. The sunflower turns instinctively towards the sun: the barberry folds its stamens over the pistil, if the latter be pricked with a pin: the hedysarum gyrans, found only on the