BROOM griculture STVOTS

following ways:—

1st. The oxygen of plants is obtained principally from water and carbonic acid. Indity. Their carbon is nearly all derived from carbonic acid. Arilly. Their carbon is nearly all derived from carbonic acid. Arilly. Their hitrogen is principally from water, but probably in part from ammonia. Sthly. Their nitrogen is principally derived from ammonia. Sthly. Their nitrogen is principally derived from ammonia and partly from nitrice and. Only. A portion of all these substances is obtained by plants from the remains of other vegetables which have arised before them. In general, plants derive the materials of their organic part from water, carbonic acid, and ammania are his part of the food plants is concerned, it chindly belongs to the farmer ampay to the soil substances capable of affording ammonia, or nitric acid, and carbonic seid. Some of the reasons why these views of the supply of food to

the organs of plants; the vessels or utensile, as it wars, which nature camploys in converting the unorganized matter of the poll and air into food for men and animals.

The general structure of all plants is easily the same. The wood of the particut return of the product return of the

The Plan mended to merchan habits, They add a street may be viewed as habits. They add a batter parts—Hark, Wood, and Pith. The the mind. See that each bot ing the tree, of a white or brownish color on the also, a band account parts of the trunk, and seing the true, of a white or brownish color on the lar parts of the trunt, and green on the young exmittles of the twigs. This inner or true bark is veridable factoried from the sir by an outer often or vering, which is too from the sir by an outer of in or vering, which is a some trues, as the grasses, this outer bark is the only exterior of the sir by the si

any fluid food; no particle of clay or other undissolved matter can enter them; they absorb water, and this in so large a quantity that a sumflower three feet high has been stated to draw from the soil thirty unces of water of the soil is not pure; it contains a great variety of mineral and other substances in solution, and these it must carry to the roots of every plant which grows upon it. Do all plants, then, which can grow on the same soil, require from it the same kinds of food? Experiments above that this cannot be the case. It is pea and a plant of wheat firth a claim to the particle of the plants, and if both be gathered and one of the shore that this cannot be the case. If is pea and a plant of wheat firth a claim to the particle of the plants and the plants. Then, which same the supply is limited. Farmers who desire to preserve the life and health, of their young hands, life, but the same kinds of food? Experiments above the plants, then, which can grow on the same soil, require that this cannot be the case. It is pea and a plant of wheat firth a claim to the plants of the plants o

From First Lessons in Scientific Asschauses, by J. W. Dawson, L. L. D., F. R. S., Principal or McGell. University. John Lovelli, Montreal, CHAPTER V.

Sb. Recapitulation.

Before leaving this part of the subject, it will be useful to repeat the most important of the conclusions deducible from what has been already stated.

We have seen that plants consist of organic substances, differing from any forms of dead matter, and or inorganic matters derived from the mineral matter of the coil.

The organic part of plants we have found to consist of three gases, oxygen, hydrogen and nitrogen, and one solid substance, carbon; and these are obtained in the following ways:

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"The organic part of plants we have found to consist of the same manner it can be shown that is nutritive. In the same manner it can be shown that

mania, or aitric acid, and carbonic scid. Some of a reasons why these views of the supply of food to gestion should be atlopted, as well as some of their sectical applications, have already been mentioned say will, however, more tally appear after we have arranged the means by which they are caltivated.

CHAPTER VI.

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