

Growth of the young plant.

Organs of sexual reproduction; fertilisation; cross-pollination use, methods of artificial control, artificial and natural modification, heredity.

*Animal Reproduction.*

Hatching of eggs; artificial hatching; internal incubation in higher animals; heredity; breeding to purpose; care of offspring; growth of young.

*Study* at convenient periods of the wild flowering plants, grains and cultivated flowers of the locality. Classification of same. Plant collections.

SEPTEMBER TO JANUARY

*Nutritive Adaptations of Plants.*

Modifications of the root, stem, leaves, and leaf arrangement to secure food, moisture, and light.

Plant societies.

Saprophytic and parasitic plants; economic relations of common forms; yeast, moulds, fungi, sour milk, etc.

Disease germs; spread of disease, flies, mosquitoes, water, food contagion, etc.; sanitation.

*Nutritive Adaptations of Animals.*

Modifications of the teeth of mammals, bills and feet of birds, mouths of insects, etc., in relation to habits of feeding.

*Locomotive Adaptations.*

Modifications of limbs and feet of mammals, wings and legs of birds, wings and limbs of insects, etc.

*Sensory Adaptations.*

General use of sense organs.

Structure and relation to environment and habits of life; organs of smell; organs of feeling, skin, antennae, fingers, etc.; organs of hearing, origin and transmission of sound, intensity, pitch; organs of sight, reflection and refraction of light, the eye and camera, microscope, colour.

*Study* at convenient periods of the forest and fruit trees of the locality. Classification of same.