

ICSE Class 9 Biology Practical Syllabus

The practical work is designed to test the ability of the candidates to make accurate observations from specimens of plants and animals.

PLANT LIFE

- (i) The examination of an onion peel under the microscope to study various parts of the cell.
- (ii) A cross-pollinated flower to be examined and identified and the parts to be studied and labelled e.g. Hibiscus.
- (iii) Specimens of germinating seeds with plumule and radicle (the bean seed and maize grain) for examination, identification, drawing and labelling the parts.

ANIMAL LIFE

- (i) The examination of a human cheek cell under the microscope to study various parts of the cell.
- (ii) Identification of sugar, starch, protein and fat. through conduct of relevant tests.
- (iii) Examination and identification of specimens belonging to the following groups of animals: Non Chordata - Porifera, Coelenterata, Platyhelminthes, Nemathelminthes Annelida, Arthropoda. Mollusca and Echinodermata. Chordata- Pisces, Amphibia, Reptilia, Aves, Mammalia. Identification of the structure of the following organs through specimens/models and charts: Lung and skin.
- (iv) Experiments to show the mechanism of breathing. Bell jar experiment should be discussed. Comparison should be made with the human lungs and respiratory tract to show the mechanism of breathing.
- (v) Visit a few establishments in the locality such as motor repair workshops, kilns, pottery making units, fish and vegetable markets, restaurants, dyeing units. Find out the types of wastes and methods prevalent for their disposal. On the basis of the information collected, prepare a report, suggest measures to improve the environmental conditions.
- (vi) Visit a water treatment plant, sewage treatment plant or garbage dumping or vermi composting sites in the locality and study their working.