At Junior Certificate level the student can:

**Understand and identify the structure, functions and processes of a typical flowering plant**

### Learning Targets - This has been demonstrated by your ability to:

1. Draw one example of a plant cell, identifying the nucleus, cytoplasm and cell wall and indicate the position of the cell membrane
2. Identify and understand the functions of the main parts of a microscope and use it to examine a plant cell
3. Prepare a slide from plant tissue and sketch the cells under magnification
4. Identify the main parts of a typical flowering plant and their functions; the root, stem, leaf and flower
5. Locate and identify the main parts of the flower: sepals, petals, carpel and stamen
6. Understand how to use a simple key to identify plants
7. Describe, using a word equation, how plants make their own food through photosynthesis
8. Show that starch is produced by a photosynthesising plant
9. Investigate the growth response of plants to light
10. Investigate the conditions necessary for germination

**Refer also to:** Art, Home Economics, Personal and Social Development, Physical Education.