

Standard Grade Biology

The World of Plants

2. Growing Plants

Checklist Grade

At the end of this topic you should be able to:

- | | | |
|---|--------------------------|---------|
| (a) describe the function of the 3 main parts of the seed of a dicotyledon, i.e. seed coat, embryo, food store. | <input type="checkbox"/> | General |
| (b) describe the effect of temperature and the availability of water and oxygen on germination. | <input type="checkbox"/> | General |
| (c) describe the changes in percentage germination that occur over a range of temperatures. | <input type="checkbox"/> | Credit |
| (d) describe the functions of parts of flowers, i.e. sepal, petal, stamen, anther, stigma, ovary, nectary. | <input type="checkbox"/> | General |
| (e) describe the growth of the pollen tube and the fusion of gametes during fertilisation. | <input type="checkbox"/> | General |
| (f) explain the structure of wind and insect pollinated flowers in relation to seed dispersal. | <input type="checkbox"/> | Credit |
| (g) describe fruit formation. | <input type="checkbox"/> | Credit |
| (h) describe examples of 3 different seed dispersal mechanisms (wind, animal – internal and external). | <input type="checkbox"/> | General |
| (i) explain how seed and fruit structures are related to dispersal and survival. | <input type="checkbox"/> | Credit |
| (j) describe a range of ways to propagate plants artificially (cutting, layering, graft). | <input type="checkbox"/> | General |
| (k) state what is meant by the term 'clone'. | <input type="checkbox"/> | General |
| (l) explain the advantages to man of artificial propagation in flowering plants. | <input type="checkbox"/> | Credit |
| (m) describe 3 methods of asexual reproduction (runners, tubers, bulbs). | <input type="checkbox"/> | General |
| (n) describe the advantages of asexual reproduction to plants. | <input type="checkbox"/> | General |
| (o) explain the advantages and disadvantages of sexual and asexual reproduction to plants. | <input type="checkbox"/> | Credit |

Homework

End of Topic Test
