

Biology AS 90928

Demonstrate understanding of biological ideas relating to the life cycle of flowering plants

Level 1, 4 Credits

Achievement	Achievement with Merit	Achievement with Excellence
<ul style="list-style-type: none"> Demonstrate understanding of biological ideas relating to the life cycle of flowering plants. 	<ul style="list-style-type: none"> Demonstrate in-depth understanding of biological ideas relating to the life cycle of flowering plants. 	<ul style="list-style-type: none"> Demonstrate comprehensive understanding of biological ideas relating to the life cycle of flowering plants.

Biological ideas relating to the life cycle of flowering plants will be selected from:

- ❖ related life processes
- ❖ structural components involved with the plant processes
- ❖ the functioning of the structural components
- ❖ the overall functioning of the plant processes
- ❖ products or outcomes of the plant processes (including raw materials and requirements)
- ❖ the effect of environmental factors, such as light intensity, temperature, wind, moisture and oxygen, on the selected plant processes

- Asexual reproduction of flowering plants. Asexual reproduction includes:
 - different methods including, but not limited to, cuttings, tubers, rhizomes, runners, bulbs
 - advantages / disadvantages of asexual reproduction

- Sexual reproduction of flowering plants. Sexual reproduction includes:
 - wind pollinated flower structure compared to insect pollinated flowers
 - relating structure to function
 - steps involved from pollination to fertilisation
 - structure of dicotyledon seeds relating each structure to its function
 - methods of seed dispersal
 - advantages / disadvantages of sexual reproduction

- Germination. Germination includes:
 - seed structure
 - germination stages
 - environmental factors affecting germination

- Growth. Growth includes:

