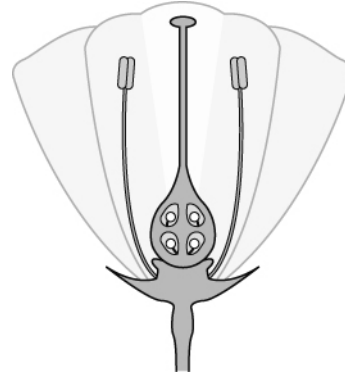


Name _____ Class _____ Date _____

1 a Draw lines to match the names of the parts with their functions and where they are found in a flower.

| | |
|--------|----------------------------|
| style | makes pollen grains |
| ovule | supports the stigma |
| stigma | contains the female gamete |
| anther | receives pollen |



b How do you think this flower is pollinated? Explain your reasoning.

2 Some pollen grains are large, contain a store of carbohydrate and have spikey coverings.

a How are they likely to be transferred from anther to stigma?

b Why do they have a store of carbohydrate? Tick (✓) *one*.

- | | |
|---|--|
| <input type="checkbox"/> To make the grains lighter. | <input type="checkbox"/> To provide food for bees. |
| <input type="checkbox"/> To help them grow into new plants. | <input type="checkbox"/> For photosynthesis. |

3 In what is the male gamete found in flowering plants?

- | | | | |
|---------------------------------------|--------------------------------|-----------------------------------|-----------------------------------|
| <input type="checkbox"/> pollen grain | <input type="checkbox"/> ovule | <input type="checkbox"/> egg cell | <input type="checkbox"/> sex cell |
|---------------------------------------|--------------------------------|-----------------------------------|-----------------------------------|

4 Which of these is *not* an adaptation of petals?

- | | | | |
|--|---|---|--|
| <input type="checkbox"/> bright colour | <input type="checkbox"/> provide a platform | <input type="checkbox"/> produce pollen | <input type="checkbox"/> produce scent |
|--|---|---|--|

5 Maize plants use wind pollination and have male flowers at the top of the plant and female flowers further down the stem. Suggest why they have this arrangement.

I can...

- explain how the structures of flowers and pollen allow pollination.