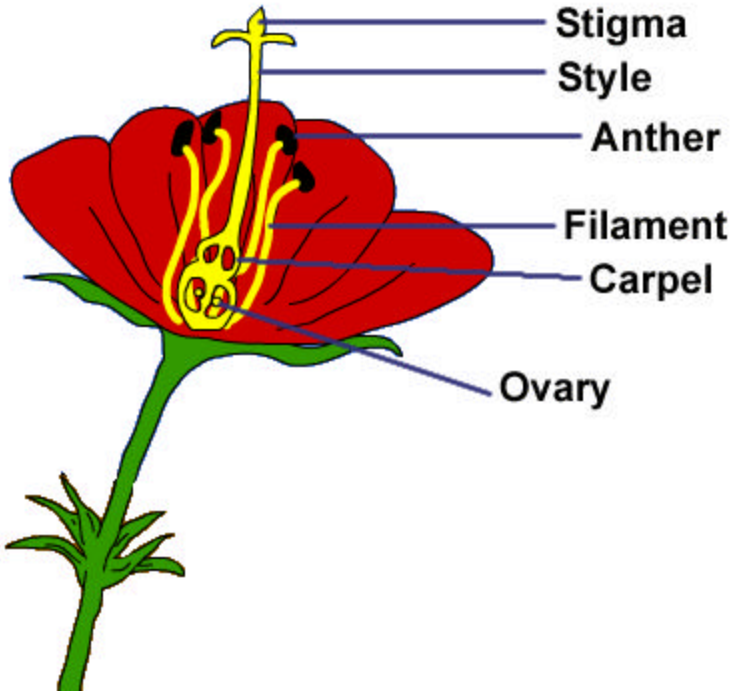
The Plant Challenge

See how much of this sheet you can complete
(Playing "The Plant Detective" will help you)

1. Why are the petals of a flower often brightly coloured and scented? Is it (a) to attract humans or (b) to attract insects?

   (b) to attract insects

2. Complete the diagram below by filling in the names of the male and female parts of the plant.



3. Wordsearch.

(a) There are three words which describe the male reproductive parts of a flower hidden in this word jumble. Can you find them?

They are: **FILAMENT, ANTHER, POLLEN**

P	I	C	R	S	E	R	Q	T	I
O	O	A	I	Q	R	E	W	R	T
I	I	L	P	E	E	H	A	Y	S
P	K	Q	L	T	H	T	J	U	B
S	P	D	V	E	T	N	K	M	N
G	I	E	S	Y	N	A	L	O	M
F	I	L	A	M	E	N	T	F	O

(b) There are four words which describe the female reproductive parts of a flower hidden in this word jumble. Can you find them?

They are: **STIGMA, STYLE, OVARY, CARPEL**

A	B	R	C	E	I	H	L	T	I
M	V	O	A	W	C	N	M	R	T
G	R	V	R	Q	Z	B	C	Y	S
I	T	A	P	B	X	R	G	U	B
T	H	R	E	M	T	R	N	M	N
S	T	Y	L	E	J	T	S	O	M

4. What happens when the pollen from one flower reaches the stigma of another flower of the same species?

Pollination

5. What happens after fertilisation? (tick the right answer)

(a) a new plant develops ☐

(b) a seed develops ☐ ✓

(c) the plant dies ☐

6. What two things do seeds need to germinate?

(a) **Water**

(b) **Oxygen**

7. Is the green pigment in the leaf called (a) colourful or (b) chlorophyll?

(b) Chlorophyll

8. Which of these statements is correct? (Tick the right answer)

(a) During photosynthesis leaves take in carbon dioxide and give out oxygen ✓ ☐

(b) During photosynthesis leaves take in oxygen and give out carbon dioxide ☐

9. Some leaves are big, some are small, some are hairy, some can sting, some are poisonous. Why do you think this is?

Adaptation

10. What is carried up the stem from the roots?

Water and nutrients

11. Write down two ways that plants can protect themselves against animals

(a) **Thorns**

(b) **Stinging Hairs**

12. Cactus and water lily look very different from one another because they have developed ways to survive in their own special environments. Can you make two lists from the jumble of words and sentences below. One list will describe a cactus or its habitat, the other will describe a water lily or its habitat.

Spiky	**Waxy thick coat**	**Dry**
No thorns	**Thin, large leaves**	**Water**
No soil	**Small, thorny leaves**	**Hot**
Poor soil	**Stores water in the stem**	**Humid**
Pond	**Floats**	**Stream**

Water Lily List	***Cactus List***
No thorns	**Spiky**
No soil	**Poor soil**
Thin large leaves	**Small thorny leaves**
Water	**Dry**
Humid	**Hot**
Stream	**Stores water in the stem**
Pond	**Waxy thick coat**
Floats	