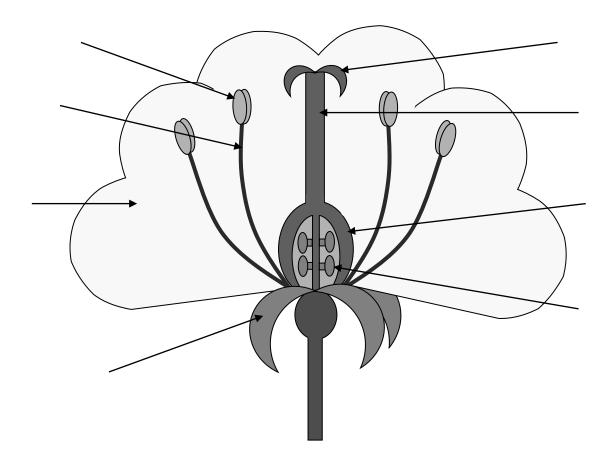
Name:	

Structure of a flower

Label the diagram below:



Complete the word fill exercise below and table on the next sheet:

The male part of the flower is called the		consists of the	
and	The female part	of the flower is called	
the co	onsists of the,	and	
Th	he male gamete is made in the	and is	
found inside the	grain. The female g	amete is found in the	
and is	s called an		

Flower Part	Function
Petals	
Anther	
Filament	
Stigma	
Style	
Ovary	
Ovules	
Nectary	
Sepals	
Stamen	
Carpel	

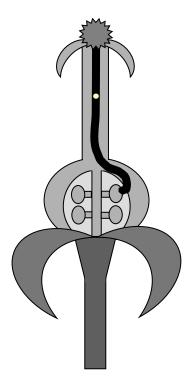
Name:
Pollination:
What is pollination:
There are two mechanisms for pollination: wind and insect. Flowers are adapted to suit the mechanism by which they are pollinated.
Identify which flower illustrated below is wind-pollinated and which is insect-pollinated:
Name three flowers that are insect-pollinated:
Give an example of a type of plant that is wind-pollinated:

Complete the table below by describing how each part of the flower is adapted for wind or insect-pollination:			
Flower part	Insect-pollinated	Wind-pollinated	
Petals			
Nectary			
Scent			
Stigma			
Stamen			
Explain the difference between self-pollination and cross-pollination:			

Name:____

Why is it preferable for a plant to encourage cross-pollination rather that	
pollination?	n self-
Explain the methods used by plants to encourage cross-pollination (you refer to the diagrams in the previous page and below in your answer).	ı can

Fertilisation



What stimulates the pollen tube to grow?
Why do pollen grains only produce tubes in flowers of their own species?
Explain how the pollen tube grows down through the style:
How does the male gamete in flowers differ to the animal male gamete?
When does fertilisation occur?
What type of division occurs to produce an embryo plant from the diploid zygote formed after fertilisation?

Name:			

For each of the seeds shown state its mechanism for seed dispersal and describe the adaptations that are suited to the mechanism

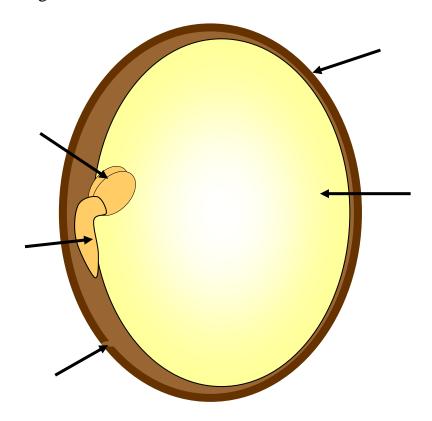
Name of plant	Diagram of seed	Seed dispersal mechanism	Adaptations
Lupin		mechanical	Dries unevenly and splits open with force shooting the seeds outwards
Backberry			
Burdock			
Sycamore			
Coconut			

Key words to help: animal, water, wind, hooks, wings, hollow, light, fruit, bright colour, waterproof case

Name:				

Seed germination

Label the diagram:



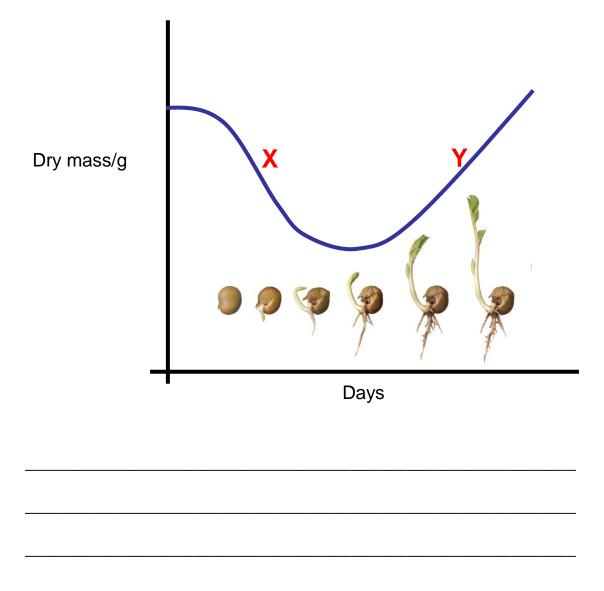
What are the:

- a) Cotyledons:_____
- b) Plumule:_____
- c) Radicle:____
- d) Testa:____
- e) Micropyle:_____

Why is it important for water to enter the seed?_____

Name:	
What is meant by the term dry mass?)

Explain why the dry mass changes at points X and Y in the graph below:



Summarise the experiment results below to explain what conditions are required for seed germination:

