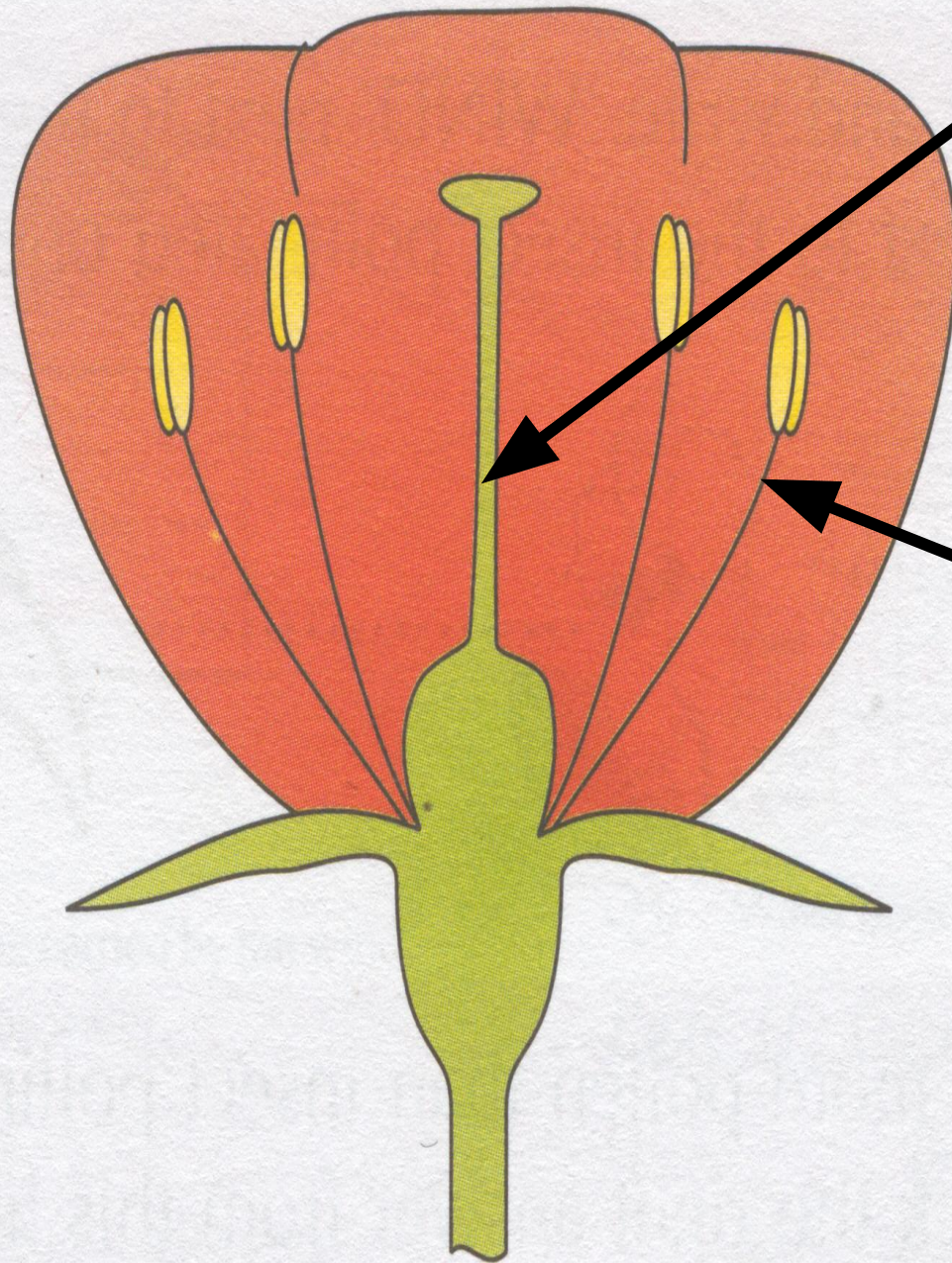


# Sexual Reproduction

In

Flowering Plants

THE REPRODUCTIVE PART OF  
PLANT IS A FLOWER

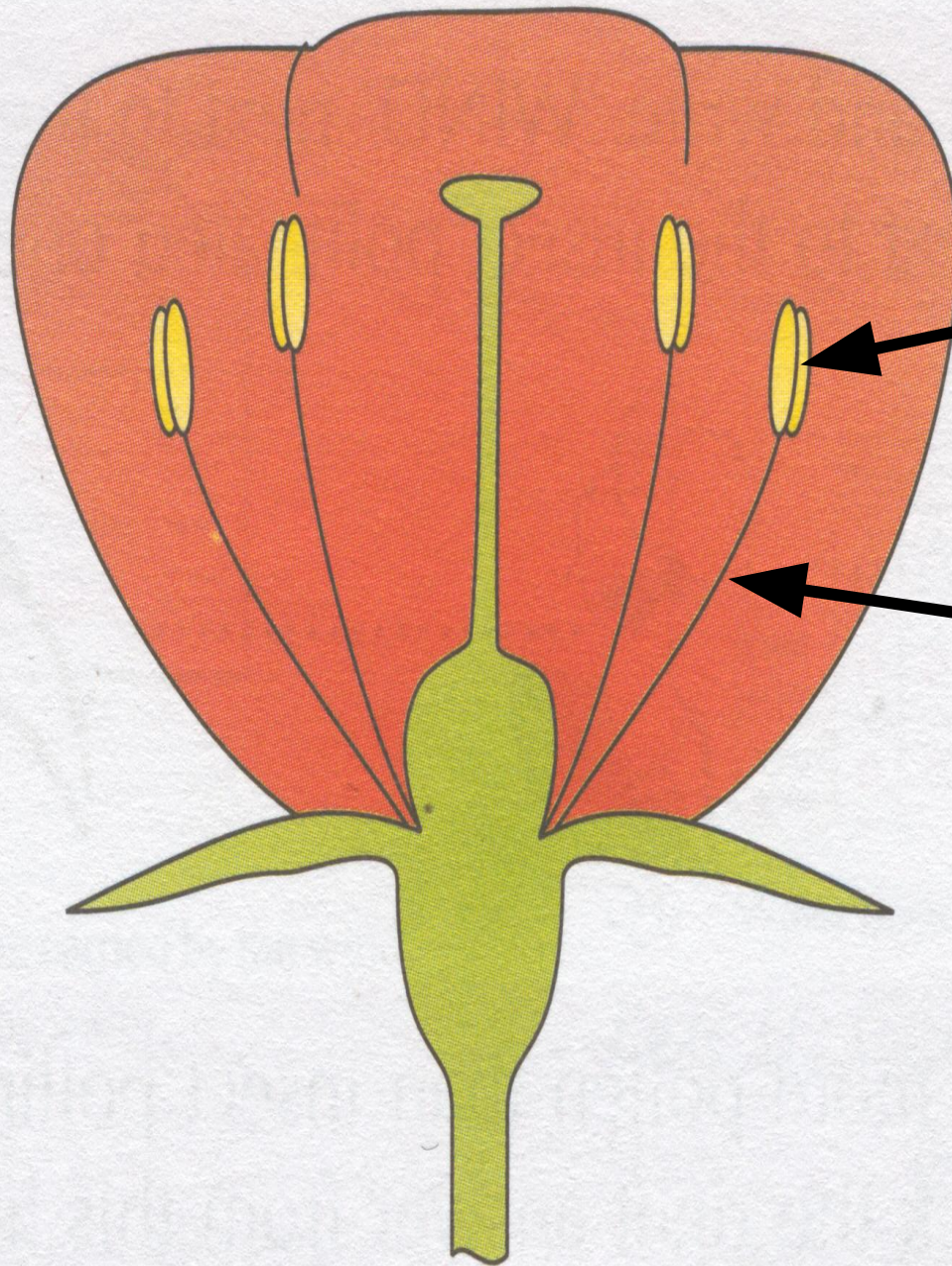


## The Carpel

The female part of the flower is called the Carpel.

## The Stamen

The male parts of the flower are called Stamens.



**Stamens**  
(male reproductive parts).

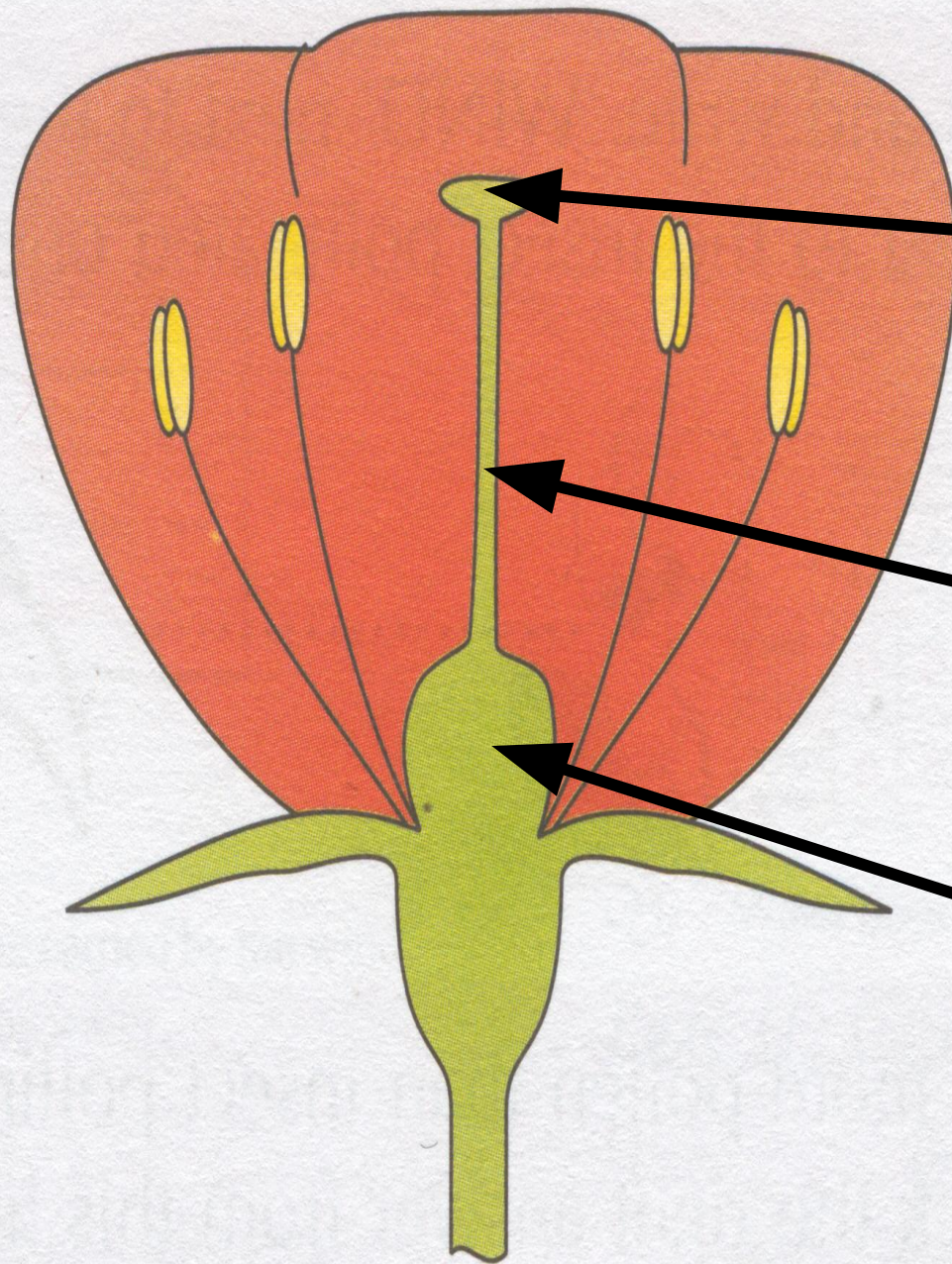
Anther

The top of the Stamen is called the Anther.

Filament

The Filament acts in the same way as a stem and holds up the Anther.

What is the yellow powder on the Anther?  
Pollen grains



Carpel  
(female reproductive part).

Stigma

The top of the Carpel is called the Stigma.

Style

The Style acts in the same way as a stem and holds up the Stigma.

Ovary

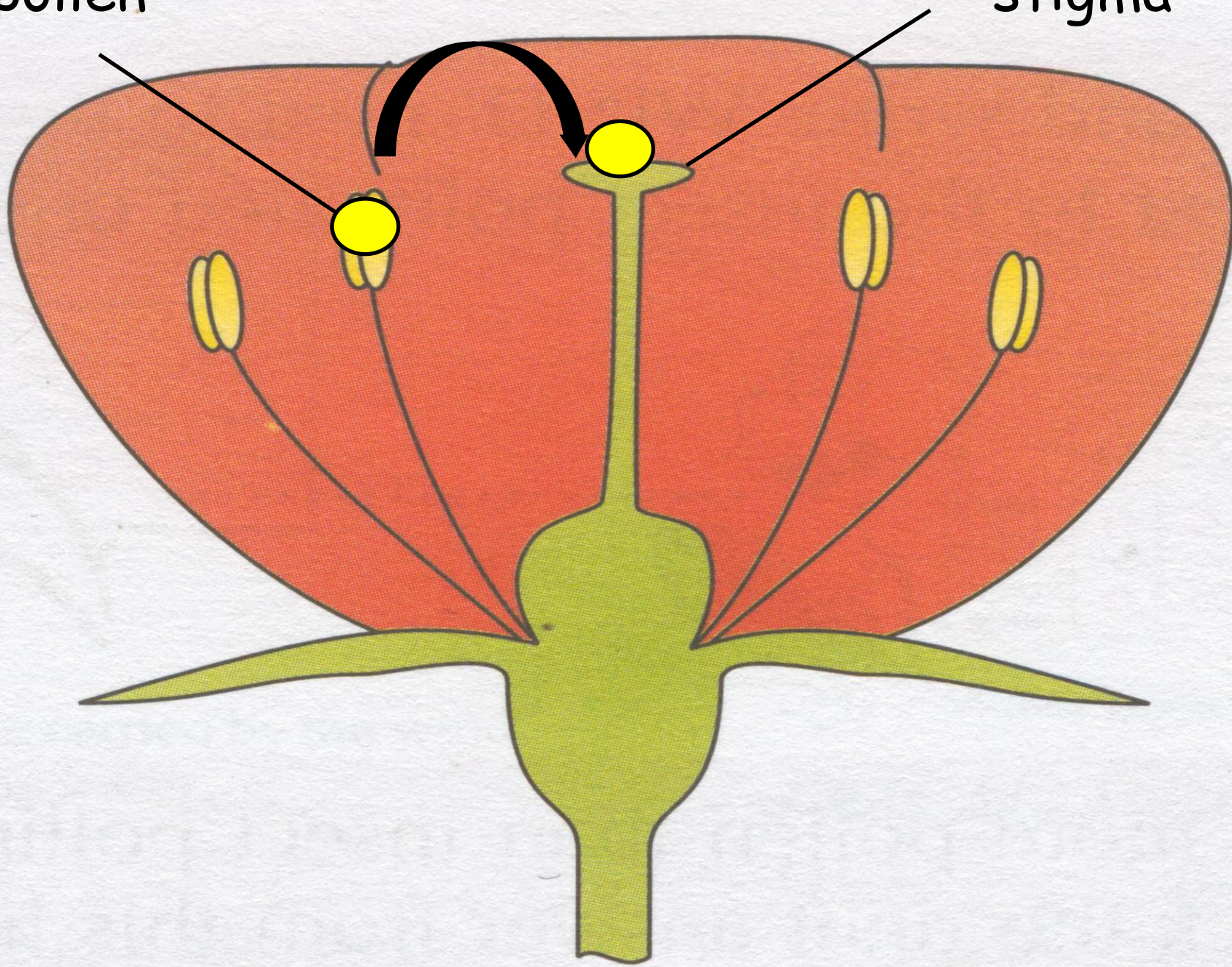
The ovary contains the eggs.

# Pollination

Transfer of pollen grains from anther  
to stigma of a flower

pollen

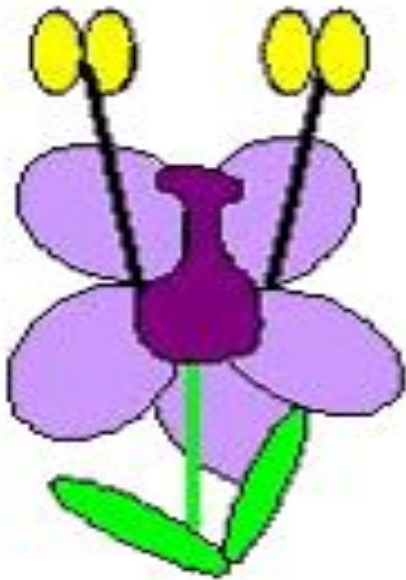
stigma



If the pollen grains are transferred from the anther to the stigma of the same flower it is self pollination

If it is transferred from the anther of one flower to the stigma of another flower it is cross pollination.

### POLLINATION



FLOWER 1



FLOWER 2



Pollination takes place by insects, wind, water etc.





**Pollen** sticks to insects and as they move around the pollen sticks to the **stigma**.



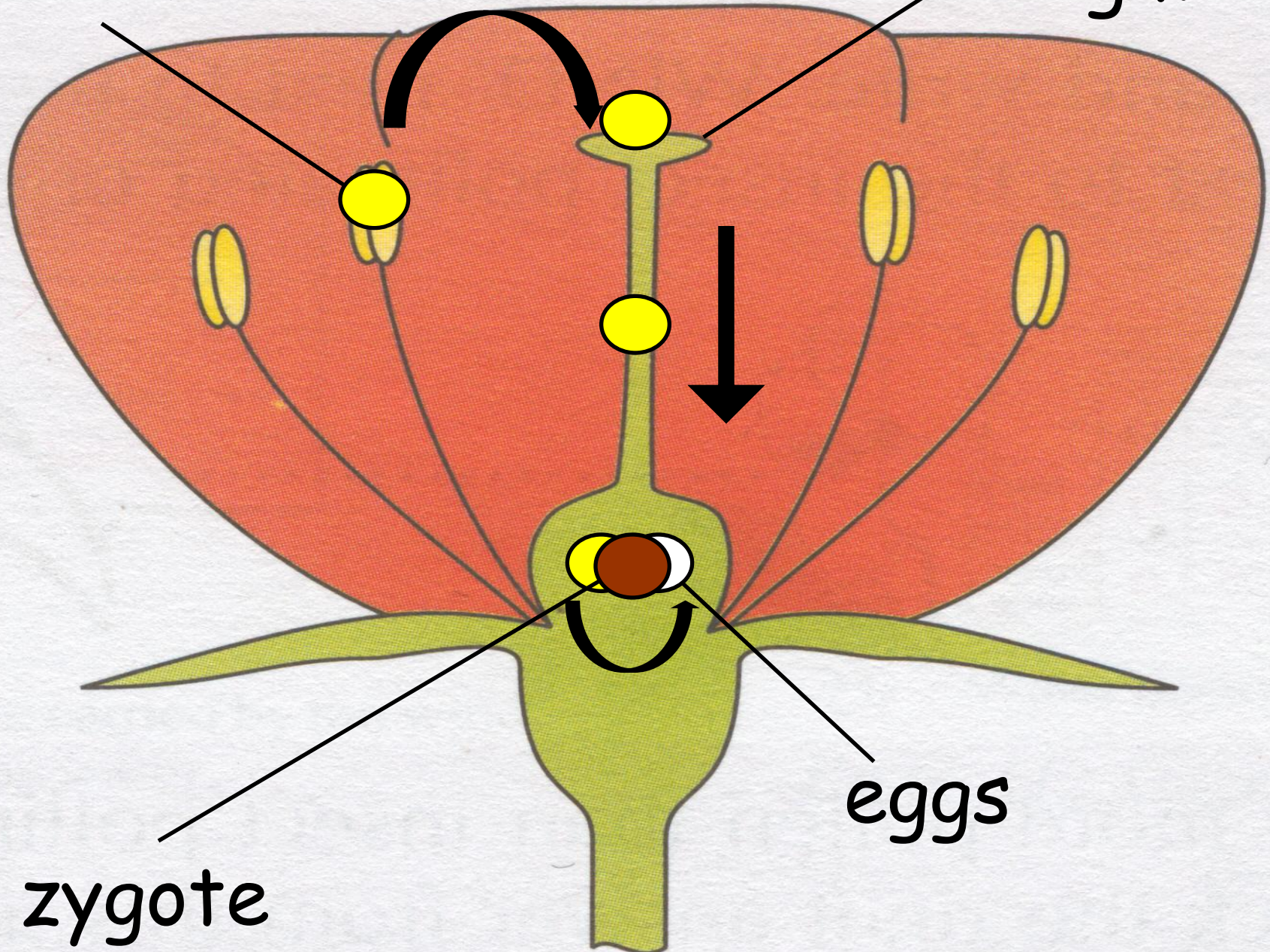
During windy days the pollen get blown from the anther to the stigma.

After the pollen grain is transferred to the stigma it produces a pollen tube which passes through the style and enters the ovary and ovule.

.

pollen

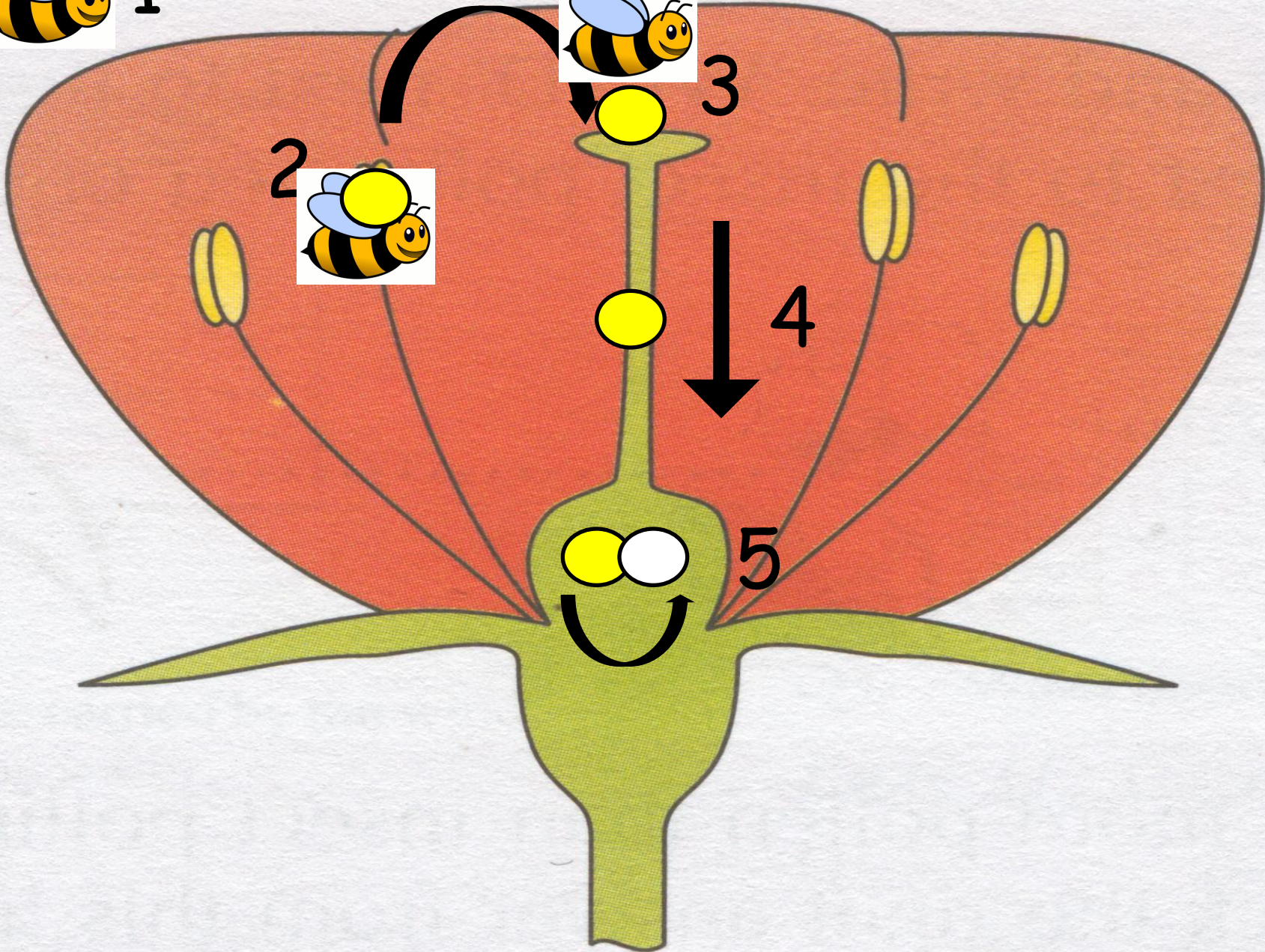
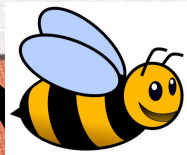
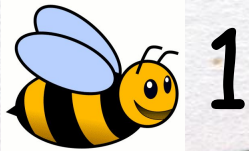
stigma



zygote

eggs

When the pollen germ cell fuses with the eggs in the ovule to form a zygote this process is called **Fertilisation.**



# *Fertilisation*

each pollen grain grows  
a pollen tube down to  
the ovule

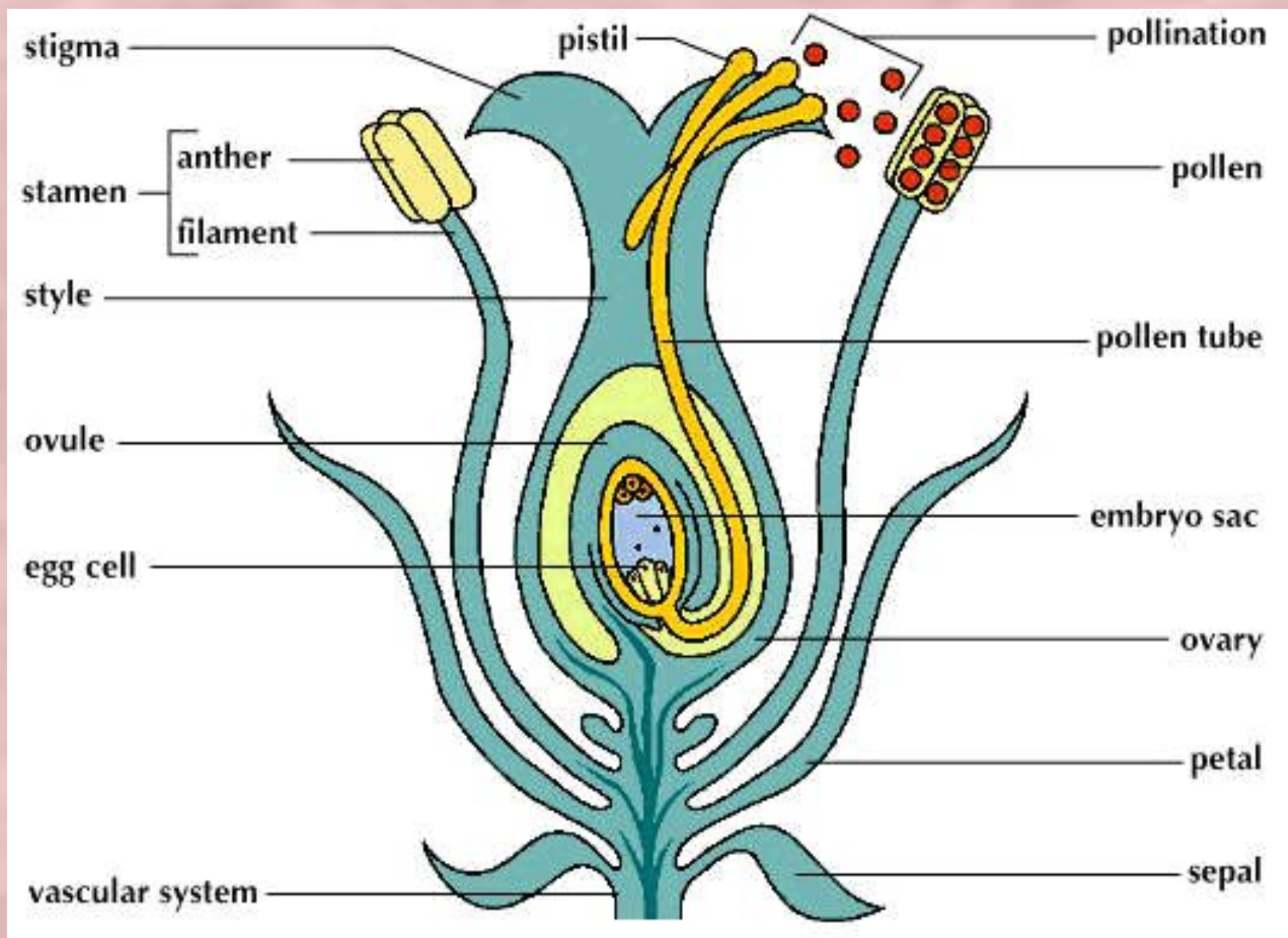
pollen grains

nucleus from  
pollen grain

ovule



one pollen tube  
reaches the ovule  
where a nucleus of  
a male cell joins  
with the nucleus in  
the female cell





# SEED AND FRUIT

Once fertilisation has taken place , the zygote (fertilised ovule) becomes a seed, and the ovary becomes a fruit.

The petals die and fall off.

