DGr Reproduction Topic
Lesson 6: Sexual Reproduction in Plants

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This lesson I shall be away – see you next time! In my absence, I should like you to complete the work on this sheet during the lesson. In the last few lessons, we have been looking at sexual reproduction, mainly in humans, but also in other animals. To finish off the reproduction topic this half term, we shall take a look at reproduction in plants, starting this lesson with sexual reproduction.

Line Graph HWK

You will find that I have not yet marked the line graph homework which you completed on Tuesday night (question 5 on the homework sheet) – though I have had a quick look in your books to see what you got up to. I have decided to extend the final deadline until next Monday (18 October), in part to give a couple of people who were ill time to catch up, and also to give anyone who wishes to improve the work they have already done (perhaps by re-plotting the graph on graph paper: you can ask for some in the lesson today) a chance to do so.

Please could anyone who has not yet measured their height and weight (you know who you are!) do this by Monday so as to be included on the class set of measurements for the next homework task, which will be set on Tuesday.

Sexual reproduction in plants

This lesson I should like you to complete the worksheets on this sheet as best you can. Try to relate the work this lesson to what we have looked at already, thinking about similarities and differences with sexual reproduction in humans.

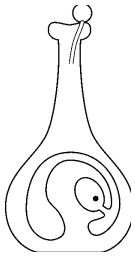
I know this particular work is new to you, and I expect you to do your best to find out about it by reading the information on the worksheets carefully and by using the textbooks, *Exploring Science 7*.

This is NOT homework. Just get as far as you can in the lesson, and we shall spend the first part of Tuesday's lesson discussing it together. Write down any questions you might have for then!

7Ae/8 Plant fertilisation

Name _____ **Class** _____

1 The drawing below shows a pollen tube starting to grow.



a Complete the drawing to show where the pollen tube will end up.

b Label the parts of the diagram. Use the words in the box.

egg cell	**ovary**	**ovule**	**pollen grain**	**pollen tube**	**stigma**	**style**

2 Fill in the missing words in the following sentences.
Use the words in the box. Each word may be used more than once.

egg	**embryo**	**fertilisation**	**nucleus**	**ovule**	**pollen**	**seed**	**stigma**	**style**	**tube**

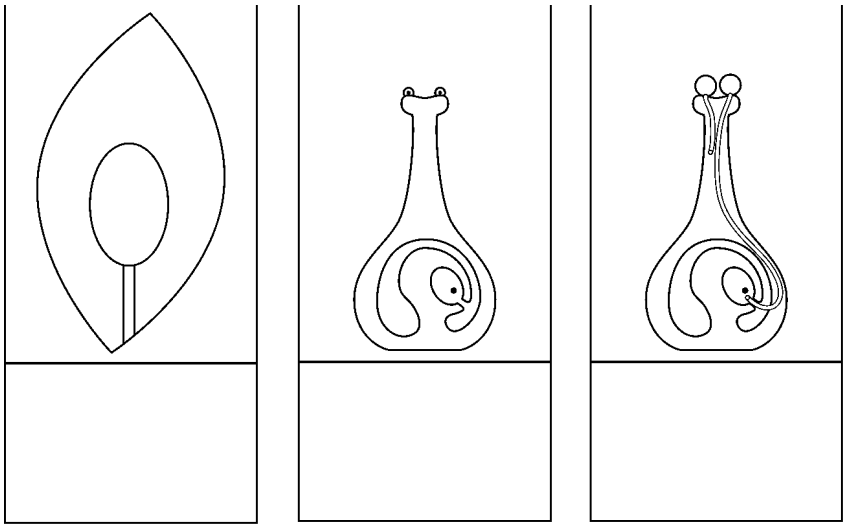
When a _____ grain lands on a _____ , a pollen _____ starts to grow. This grows down the _____ and into the ovary. It then grows towards an _____. Here it finds an _____ cell. The nucleus from the pollen _____ then joins with the _____ in the _____ cell. This is called _____. An _____ now grows inside the ovule.

The ovule turns into a _____.

[literacy, knowledge]

7Ae/6 Pollination and fertilisation

1 Look at the pictures below. Write numbers on the lines above each picture to show the correct order in which pollination and fertilisation happen.



The male nucleus from the pollen joins the nucleus in the egg cell. This is **fertilisation.**	An embryo forms. It is found inside a seed inside a fruit.	The pollen grain grows a pollen tube. It grows towards the egg cell.	The pollen grain lands on the stigma. This is **pollination.**

2 Draw lines from the 'label boxes' above to indicate what each picture shows.

3 On the diagrams label each of the following parts once.

egg cell fruit ovary pollen grain
pollen tube seed stigma style

[knowledge, literacy]