



SCIENCE REVISION PACK

UNIT 1 - LIFE CYCLE OF A FLOWERING PLANT

WHAT HAVE YOU LEARNT?



Name: _____ Grade 5/ Year 6: _____

Q1. Look at these fruits. Match each fruit to the way it disperses its seeds.

(a)



burdock

(b)



dandelion

(c)



blackberry

carried by the wind

eaten by animals

sticks to animals' fur

Q2. Write the part of the flower that performs (does) each function below:

Choose from these words:

Anther Ovary Filament Stigma

- a) Receives the pollen _____
- b) Holds up the anther _____
- c) Makes and stores pollen _____
- d) Contains ovules that eventually become seeds _____

Q3. Complete the following table by writing the suitable habitat or plant:

Tropical rainforest

mountain

Desert

Seagrass

Dandelion

| Conditions | Habitat | Plant |
|---------------------------------|------------|-----------|
| Little or no rainfall | | Cactus |
| Poor soil, polluted air | City | |
| Warm, shallow sea water | Coral reef | |
| High winds, low temperature | | Pine tree |
| High rainfall, high temperature | | Orchid |

Q4. Read the text below. Write the missing words in the spaces. Choose from the words in the boxes:

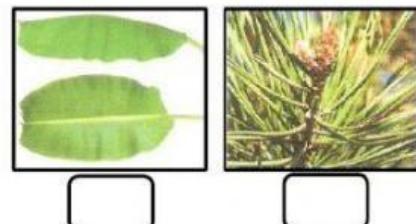
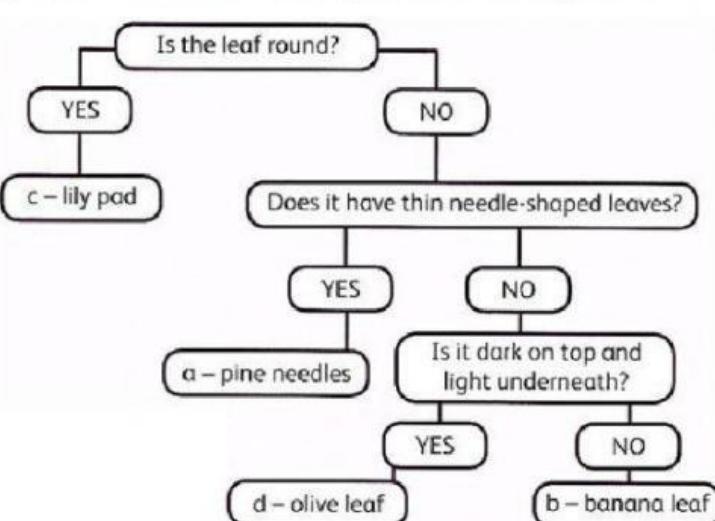
tube female seeds grain male fruit style fertilisation stigma

When a pollen _____ lands on the _____ of a flower of the same species, a pollen _____ may grow down through the centre of the _____ towards the ovary. The _____ cell inside the pollen grain passes down the tube to join with the _____ cell in the ovule. This process is called _____. After this, the ovary develops into a _____. This is the stage where seeds are produced as the ovules become _____.

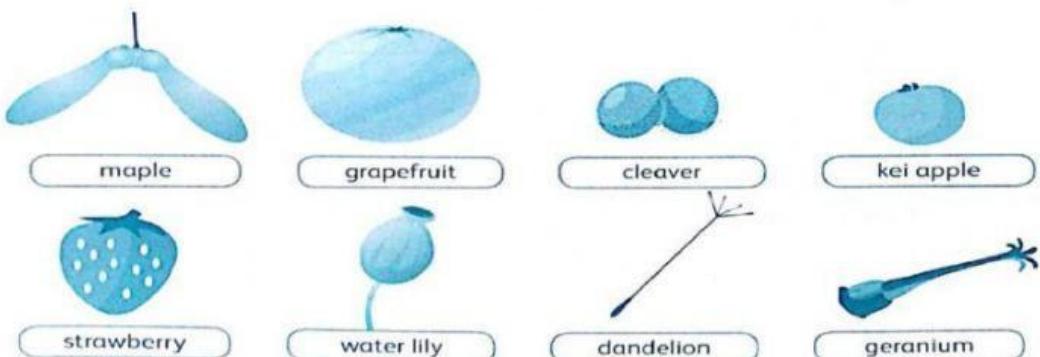
Q5 – Look at the flowers below and write down (W) for wind pollinated flowers and (I) for insect pollinated ones:



Q6. Use the identification key below to identify these leaves:

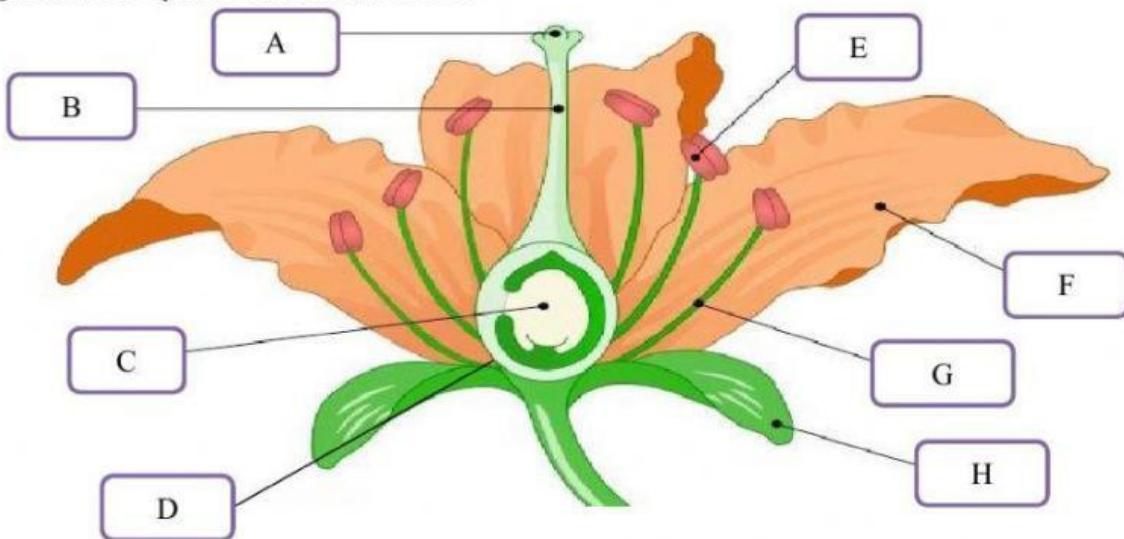


Q7. In this table, write the name of the fruit that uses each method of seed dispersal.



| Method of seed dispersal | Fruit |
|--------------------------|-------|
| Wind | |
| Animal: eaten | |
| Animals: fur | |
| Explosion | |
| Drop and roll | |
| Water | |

Q8. Label the parts of the flower below:



A. _____ B. _____ C. _____

D. _____ E. _____ F. _____

G. _____ H. _____

Q9. Match each flower part with the right description:

| Flower Part | | Description |
|-------------|---|--|
| Style | ⊗ | ⊗ May be large, brightly coloured, with a pleasant smell |
| Petals | ⊗ | ⊗ Part that contains ovules |
| Stamen | ⊗ | ⊗ Part that makes and stores pollen |
| Pollen | ⊗ | ⊗ Part that joins the stigma to the ovary |
| Ovary | ⊗ | ⊗ A powder produced by the male part of the flower |
| Anther | ⊗ | ⊗ The whole male part of the flower |

Q10. These pictures show the stages in the life cycle of a flowering plant. Match each picture to the right label:

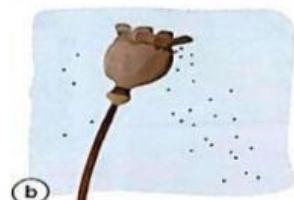
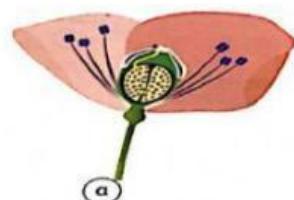
fertilisation

seed production

germination

seed dispersal

pollination

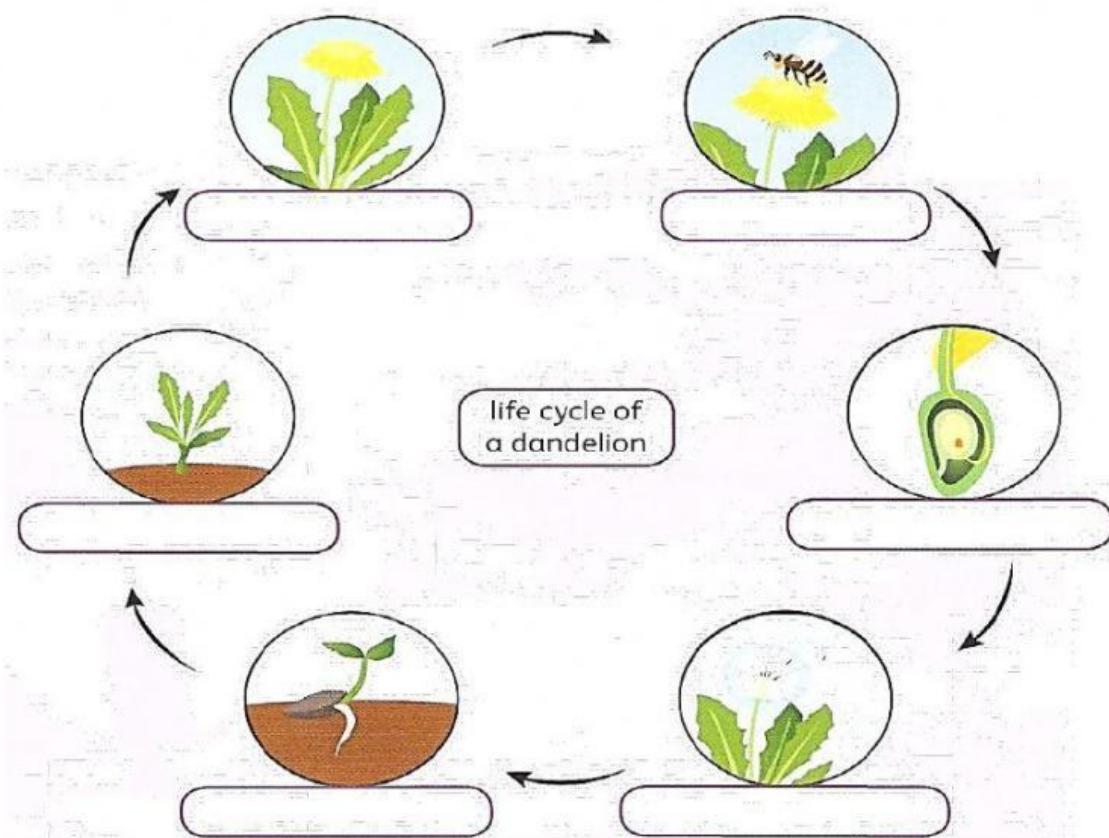


Q11. Match the seeds below to their features:

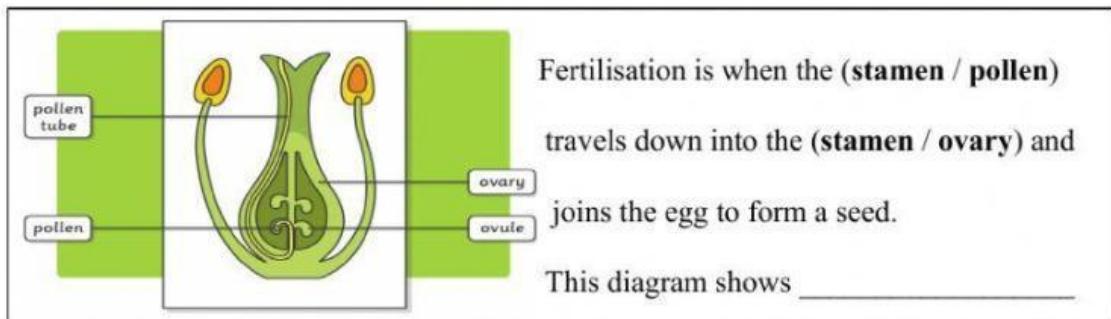
| Type of fruit | Features | |
|---------------|-----------------------|---|
| Glider | • Openings at the top |  |
| Parachute | • Stiff wings |  |
| Shaker | • Light, fluffy parts |  |

Q12. Label each of the stages in the life cycle of a dandelion plant:

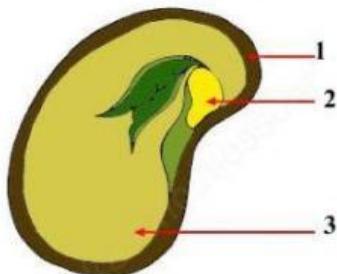
Fertilisation Flowering Growth Pollination Germination Seed dispersal



Q13. Name the diagram below and for each of the pair of words in brackets, circle the one that makes the sentence right:



Q14. Label the parts of a bean seed.



1. _____
2. _____
3. _____

Q15. Choose the correct answer:

1) Pollen grains are contained in which part of a flower?

The anther The style The petals

2) How does a flower's scent and bright colour help it to reproduce?

Non-colourful flowers do not produce pollen
 The petals Scent and colour attracts people
 Scent and colour attracts insects

3) What is germination?

When a flower is pollinated When a seed begins to grow
 When the seeds leave the parent plant

4) Which of these is not a method of seed dispersal?

Animals eat the fruit, expelling the seeds The wind blows the seeds away
 Insects visit the flower

5) After a flower is fertilised, its ovary grows into what?

A new flower A new plant A fruit

6) Pollen must be transferred to which part of the flower for pollination to occur?

Stigma Petals Stem