

Science

Year 5 Topic Test

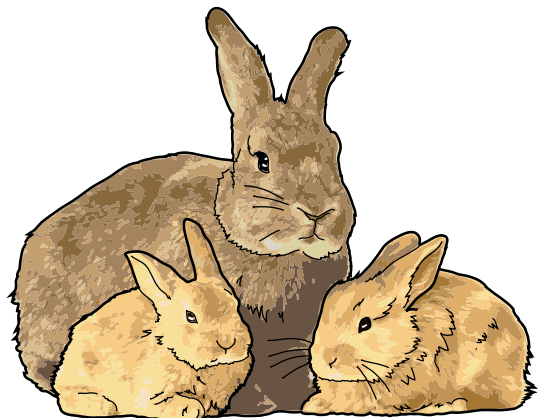
Living things and their habitats

Name:

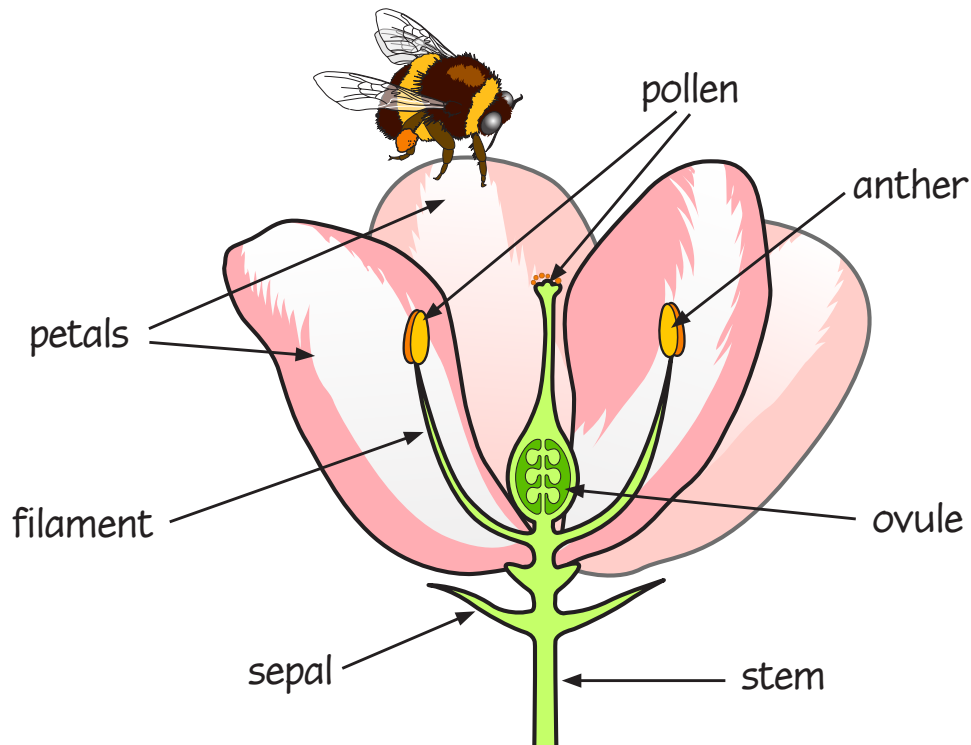
Class:

Date:

Raw Score



1 Plant reproduction



Complete the following sentences using the picture and labels above to help you:

- a The contains the male gametes (reproductive cells).
- b The female gametes are contained in the
- c The are often brightly coloured to attract insects, which help with fertilisation.

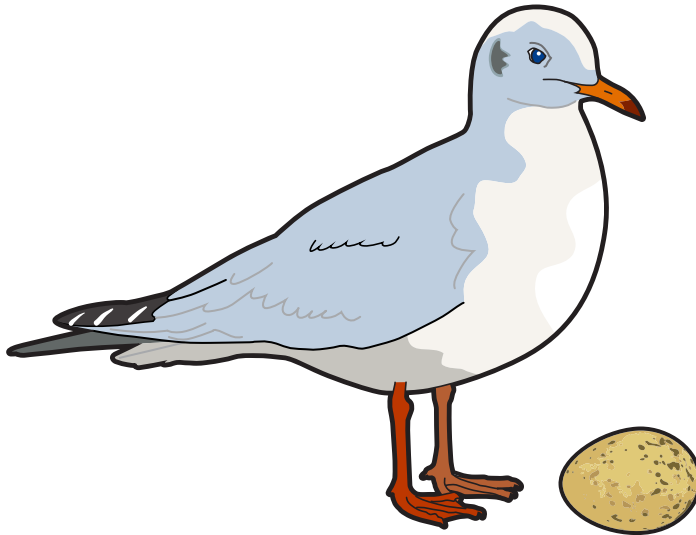
1 mark

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Page Total

2 Life cycle of a bird



Adult birds mate and reproduce.

Put the following stages into the correct order by drawing a line from the number to the statement:

1

Development takes place and the chick grows.

2

The bird leaves the nest and grows into a mature adult.

3

The egg is fertilised and is laid by the female.

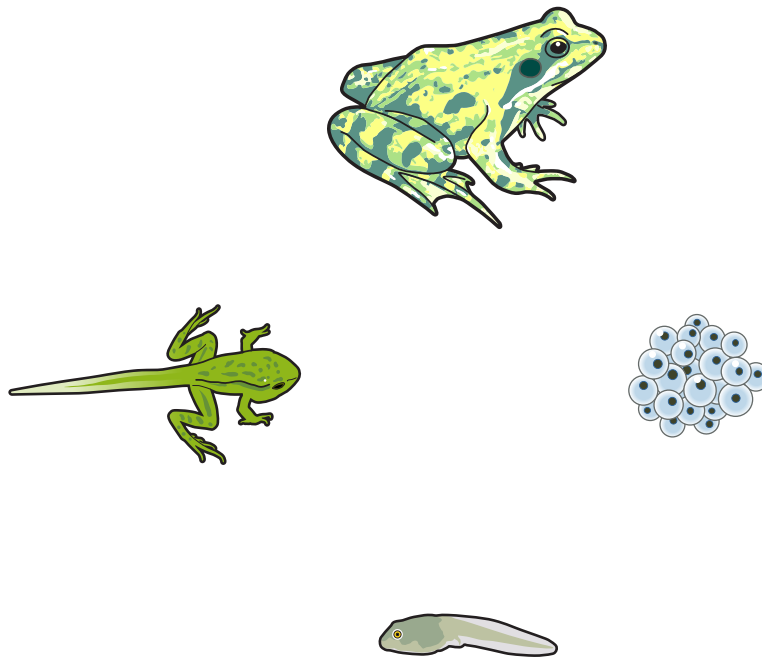
4

The chick hatches from the egg and the adult birds feed it.

2 marks

Page Total

3 Life cycle of a frog



Complete the following:

- a In the diagram above, draw arrows to show the life cycle of a frog.
- b What is the process of changing from a tadpole to an adult frog called? Circle your answer.

photosynthesis

metamorphosis

Write *true* or *false* next to the statements below:

- c A female frog lays many eggs that are fertilised by the male.
- d The eggs hatch into tadpoles.
- e The tadpole's tail shrinks and the developing frog sheds its skin.

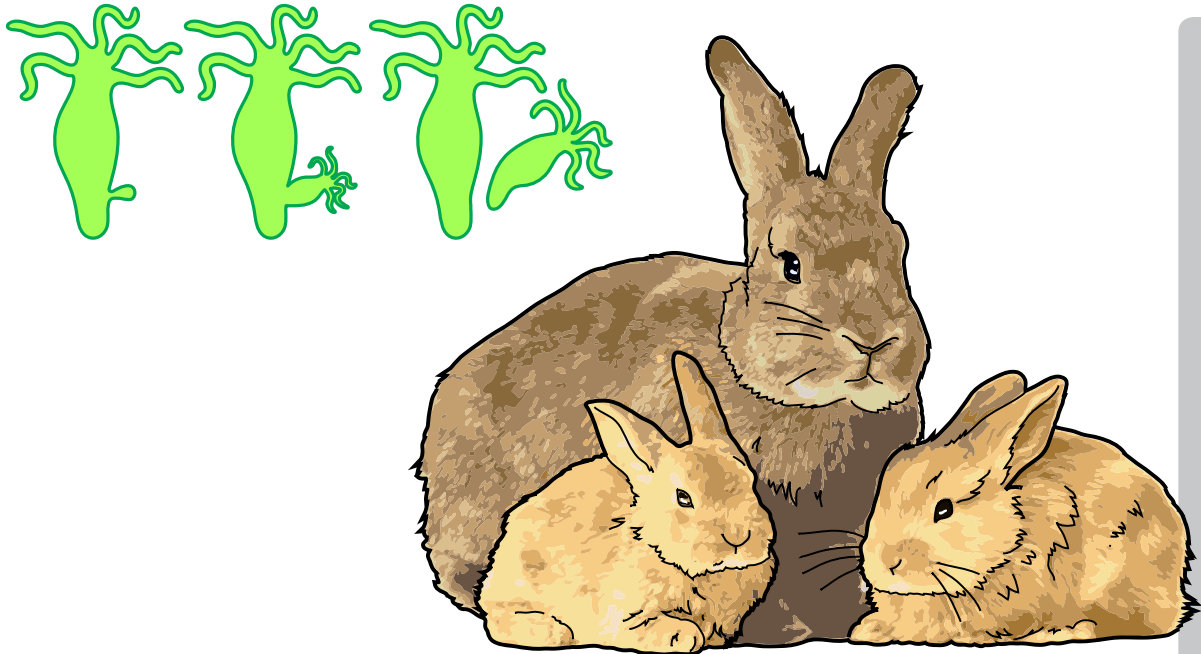
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2 marks

Page Total

4 Asexual and sexual reproduction



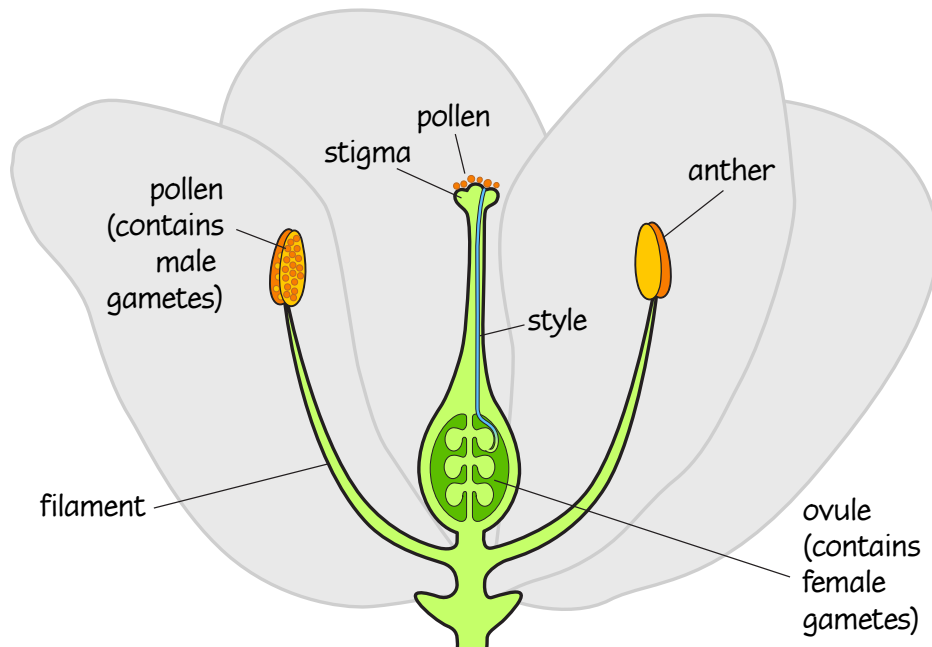
Write *asexual* or *sexual* to match each of the following descriptions:

- a The offspring needs **two** parents. The offspring has characteristics of both parents.
This is called reproduction.
- b The offspring needs only **one** parent. The offspring is a biological copy of the parent.
This is called reproduction.
- c **Butterflies** produce offspring by reproduction.

2 marks

Page Total

5 Sexual reproduction in plants



Circle the correct word to complete each sentence below:

- a Plants which reproduce by sexual reproduction have sex cells called **gametes** / **pollen** / **ovule**.
- b In these plants, the male gametes are present in the **filament** / **pollen** / **ovule**.
- c When a male gamete joins with a female gamete it is called **agriculture** / **fertilisation** / **asexual reproduction**.
- d How can bees help in plant reproduction? Circle your answer.
They travel from flower to flower transferring honey.
They travel from flower to flower transferring pollen.
They make the plants smell sweet.



1 mark



1 mark



1 mark



1 mark

Page Total



6 Cress growing experiment

Jia plants cress seeds in two pots.

Each pot:

- is kept at a different temperature
- has 25 seeds
- has the same soil
- has the same amount of soil
- is watered the same amount
- is the same size and material



The experiment lasted for 5 days.

Experiment Results

temp °C	total number of seeds germinated				
	day 1	day 2	day 3	day 4	day 5
4°	0	0	0	0	0
22°	0	1	6	11	15

Complete the following by writing *true* or *false*:

- a The experiment shows that 4°C is too cold for seeds to germinate within 5 days.
- b The experiment shows that cress seeds can grow at a temperature of 22°C.
- c The experiment shows that cress seeds are germinated as soon as they are planted.

2 marks

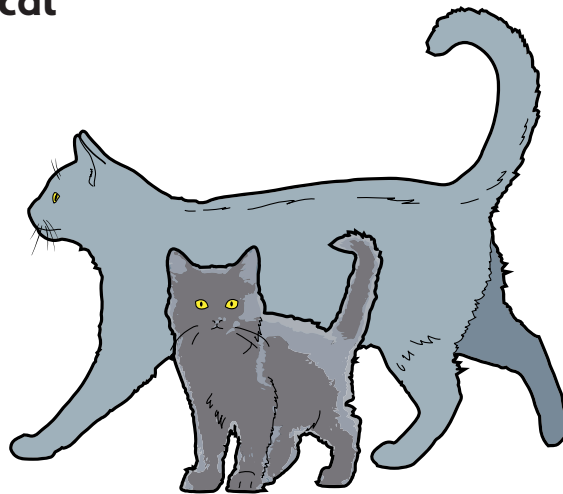
Complete the following:

- d Jia's test was a fair test. Explain why.
-
-

1 mark

Page Total

7 Life cycle of a cat



Complete the following:

- a Put these statements in the correct order by writing **1, 2, 3** or **4** to show where the stage comes in the life cycle of the cat.

One has been done for you.

☐

The young cat develops and grows normally.

☐

The adult cat is capable of mating with another cat.

☐

The baby cat is fed milk from its mother.

☒

1 The embryo grows in the cat's womb.

1 mark

- b Circle **two** of the following which correctly describe reproduction in cats.

There is one parent.

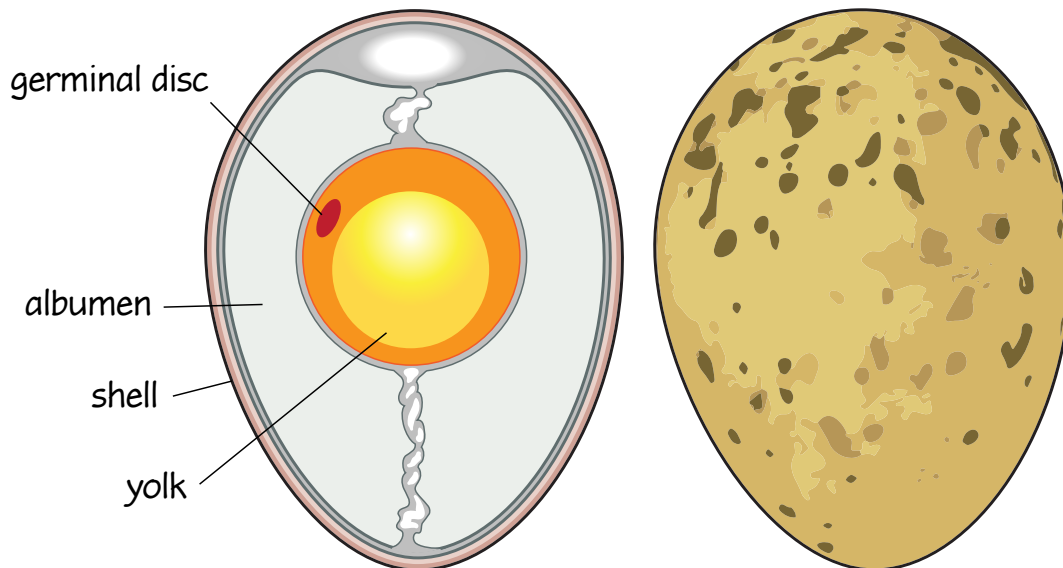
There are separate parents.

They have young by sexual reproduction.

2 marks

Page Total

8 Parts of a bird's egg



Using the diagram above, complete the following sentences:

- a The is where the male sperm enters and moves to the middle of the egg.
- b The protects the egg. It is permeable to air.
- c The is made of fats and proteins. It is where the embryo gets its main supply of food.

Circle the correct word in the sentence below:

- d Birds reproduce by **sexual** / **asexual** reproduction.

1 mark

1 mark

1 mark

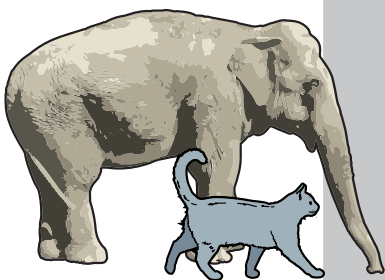
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9 Gestation periods for different animals

Alex wanted to find out if the length of the gestation period in different animals was linked to their average adult mass. He carried out research and made the table below:

animal	average gestation period (days)	average mass of an adult (kg)
camel	390	700
chimpanzee	240	50
African elephant	645	5000
cat	64	4



Complete the following:

a What is a gestation period?

.....
.....

1 mark

b Rank the animals from the table in order of their average mass starting with the heaviest animal.

1..... 2.....
3..... 4.....

1 mark

c The average gestation period of a human is 270 days.
Use Alex's research to suggest the average mass of an adult human.
Circle your answer.

15 kg 800 kg 62 kg 5000 kg

1 mark

Page Total

Test Total

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