

Life Cycles

1. The pictures below show the four-stage life cycle of a common household pest. Study it carefully and answer the questions that follow.





Life Cycles

(f)	State two ways to prevent the insect from breeding.	[2m]	
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	•		
(g)	Name another animal that undergoes a similar life cycle to the insect in this w	vorksheet. [1m]	
(h)	How is the life cycle of the animal you mentioned in (g) similar to the life cy insect in this worksheet? List two similarities.	vcle of the [2m]	
	•		
(i)	How is the life cycle of the animal you mentioned in (g) different from the life the insect in this worksheet? List two differences.	fe cycle of [2m]	
	•		
sns sld	nosquito are able to fly when they are adults. • The pupae of the butterfly and mosquito do not feed. (Accept any other reasonab • The butterfly lays its eggs on land (usually on the underside of leaves) but the mosquito lays its eggs on stagnant water. • The putterfly takes a longer time to complete (about 6 to 7 weeks) than the life cycle of the mosquito (about 2 weeks). (Accept any othe ers.)	a bas d off ouzan	

fo slov (รมอกร դеռղչ Answers: 1. (a) It is the most of the form of the transformation of transfor



Flowering plants produce flowers. The flowers later become fruit. Inside the fruit, we can find seeds. The fruit protect the seeds. Seeds can develop into new plants. The life cycle of flowering plants follows the three stages of seed-seedling-adult.



The seeds will fall to the ground and develop into new plants. The life cycle then repeats itself.

Life cycle of a flowering plant



An example of a flowering plant which follows the life cycle shown on the previous page is the tomato plant. Other flowering plants (e.g. morning glory and lady's finger) also follow the same life cycle.

Apart from protecting the seeds inside them, some fruit have a sweet and juicy flesh which can be eaten. Two examples of such fruit are the mango and papaya.

The seeds of some plants can be eaten too. Examples are soya beans and sunflower seeds.

The peanut is also a flowering plant. When the peanut flower withers, the stalk curves downwards, forcing the fruit to grow underground. The two peanuts inside the shell which we eat are actually its seeds.



Life cycle of a peanut plant



1. The picture below shows a germinating seed.



Which part will grow first?

- (1) A (3) C (2) B (4) D ()
- 2. In the diagram below, what is the function of Part A?



- (1) It provides food for the seedling.
- (2) It provides protection for the seed.
- (3) It provides water for the seedling.
- (4) It provides chlorophyll for the seedling.

3. Antonia carried out an experiment. She placed some seeds into four beakers and watered them daily.

Beaker	Amount of water	Air	Location of beaker
А	10 m <i>l</i>	50 cm ³	In the freezer
В	10 m <i>l</i>	40 cm ³	By the window
С	5 m <i>l</i>	40 cm ³	In the freezer
D	10 m <i>l</i>	50 cm ³	By the window

Which two beakers should she use if she wants to find out whether warmth is needed for germination?

- (1) Beakers A and B
- (2) Beakers A and C
- (3) Beakers A and D
- (4) Beakers B and C

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4. Study the diagrams of a seedling and an adult bean plant shown below.



What is/are the common characteristic(s) between the seedling and the adult plant?

- A. They can absorb water and mineral salts through their roots.
- B. They can make their own food.
- C. They are able to produce seeds.
- (1) A only
- (2) B only
- (3) A and B only
- (4) A, B and C

5. Leila wanted to find out if water is needed for a seed to germinate. Which of the following variables must she keep the same to make it a fair experiment?

A. Number of seeds

- B. Size of pots
- C. Type of seeds
- D. Colour of pots
- E. Amount of water
- (1) A, B and C only
- (2) A, B, C and D only
- (3) A, C and E only
- (4) A, B, C and E only

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Life Cycles Of Plants

1. The diagram below shows the life cycle of a bean plant.



At which stage is sunlight needed for its growth?

(1)	D only	(3)	B, C and D only
(2)	C and D only	(4)	A, B, C and D

- 2. What are the conditions needed for the germination of a seed?
 - A. oxygen
 - B. carbon dioxide
 - C. warmth
 - D. water
 - E. sunlight
 - (1) A, C and D only
 - (2) A, D and E only
 - (3) B, C and D only
 - (4) B, D and E only
- 3. Ivan planted some bean seeds in four similar pots.

Pot	Number of bean seeds	Location of pot	Type of cotton wool
W	5	in a black box	damp
X	5	in the freezer	dry
Y	5	near a window	dry
Ζ	5	in the bathroom	damp

Which pot of seeds would most likely germinate?

- (1) Pot W only
- (2) Pot X only
- (3) Pots X and Y
- (4) Pots W and Z

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Life Cycles Of Plants

- 4. Which shows the correct order of the stages in a life cycle of a plant?
 - (1) seed \rightarrow shoot \rightarrow roots \rightarrow leaves
 - (2) shoot \rightarrow leaves \rightarrow roots \rightarrow seed
 - (3) seed \rightarrow roots \rightarrow shoot \rightarrow leaves
 - (4) shoot \rightarrow roots \rightarrow leaves \rightarrow seed
- 5. Jacob did an experiment by putting the same number of seeds into two identical beakers. He provided the same amount of water and nutrients in both beakers daily.



What was Jacob trying to find out from the experiment?

- (1) Whether seeds need water to germinate
- (2) Whether seeds need nutrients to grow healthily
- (3) Whether seeds need warmth to germinate
- (4) Whether there should be the same number of seeds