



Science Assessment: Life Cycles

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Read each item carefully. Answer all questions in the space provided. For multiple-choice items, mark one answer only. For short-answer and development items, write in complete sentences when needed. You may use scratch paper if provided by your teacher. No outside resources are allowed.

🕒 50 min No aids allowed

A • CLOSED ITEMS

1.

(1 pt)

Which option names two stages that are part of life cycles in living things?

Choose the pair that best matches common life-cycle stages.

- A)** Growth and reproduction
- B)** Color and shape
- C)** Movement and sleep
- D)** Weather and season

2.

(0.5 pts)

A young frog becomes a larger adult frog that can produce offspring.
Which statement correctly identifies the two life-cycle stages described?

The description includes one change in size and one ability of the adult organism.

- A)** Growth happens when the frog becomes larger; reproduction is the adult producing offspring.
 - B)** Growth happens when the frog sleeps more; reproduction is the frog changing color.
 - C)** Growth happens when the frog moves to land; reproduction is the frog eating insects.
 - D)** Growth happens when the frog lays eggs; reproduction is the frog becoming larger.
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3.

(1 pt)

A plant starts as a seed, becomes a seedling, then grows into an adult plant that makes seeds. Which stage best shows reproduction?

Life-cycle sequence: seed → seedling → adult plant that makes seeds.

- A)** The adult plant making seeds
 - B)** The seedling growing taller
 - C)** The seed resting in soil
 - D)** The roots absorbing water
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4.

(0.5 pts)

An insect life cycle is described as: egg → larva → pupa → adult.

The larva becomes much larger before changing form. Which stage in the description best represents growth?

Focus on the stage where the organism increases in size.

- A) Larva becoming much larger
 - B) Adult laying eggs
 - C) Egg attached to a leaf
 - D) Pupa remaining still in a case
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B · SHORT ANSWER ITEMS

5.

(1.5 pts)

Read the case and identify one stage showing growth and one stage showing reproduction.

Case: A rabbit is born very small, feeds on milk, later becomes a larger adult, and the adult rabbits have babies.

6.

(1 pt)

Read the case and explain how the life cycle includes both growth and reproduction.

Case: A butterfly begins as an egg. It becomes a caterpillar that eats and increases in size. Later it changes into an adult butterfly, and adult butterflies lay eggs.

7.

(1 pt)

Compare the two life cycles. State one shared feature and one difference related to growth or reproduction.

Life cycle A: chicken egg → chick → adult chicken; adult chicken lays eggs. Life cycle B: bean seed → seedling → adult bean plant; adult plant makes seeds.

8.

(1 pt)

Compare the two organisms and identify which part of each life cycle shows reproduction.

Organism A: fish egg → young fish → adult fish; adult fish release eggs. Organism B: sunflower seed → young plant → adult sunflower; adult sunflower produces seeds.

C · DEVELOPMENT ITEMS

9.

(1.5 pts)

Decide whether the description below shows a complete life cycle that includes both growth and reproduction. Give a justified answer using evidence from the description.

Description: An organism hatches from an egg, becomes larger over time, and later dies. The description does not mention the adult producing eggs, seeds, babies, or any other offspring.

10.

(1 pt)

A student says, "Every life cycle that shows a young stage and an adult stage automatically shows reproduction." Evaluate this claim using the case below and justify your decision with evidence.

Case: A tree begins as a seed, grows into a sapling, and later becomes a full-grown tree. In the case record, no cones, flowers, seeds, or new trees are mentioned.

GLOSSARY**offspring**

Young produced by an adult organism.

stage

A part or step in a sequence or process.

Material generado con asistencia de inteligencia artificial. El docente es responsable de revisar, adaptar y validar el contenido antes de su uso en aula.