THE STRIVING

MUSLIM ACADEMY

Islamic and Academic Education

STAGE 5 · SCIENCE · LIVING THINGS AND THEIR HABITATS

Living things and their habitats

Everything the questions ask about is taught on the page before them, so nobody has to know the science beforehand.

WHAT IS INSIDE

- Four life cycles
- Making the next generation
- Try it yourself
- How each one is worked

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2 topics · something to do at the end

Written for a parent teaching at home. No training assumed, and nothing else to buy.

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Four life cycles

Read this first. Then answer the questions underneath.



Every living thing has a life cycle: the stages it goes through from the start of its life to making the next generation.

A mammal is born alive and fed on milk. It looks like a small version of its parent and simply grows.

A bird hatches from an egg. It is often helpless at first and is fed by its parents until it can fly.

An amphibian, such as a frog, hatches from eggs laid in water. The young is a tadpole, which looks nothing like the adult, and it changes shape as it grows.

An insect, such as a butterfly, hatches as a larva, then becomes a pupa, then an adult. The change of shape in an amphibian or an insect is called metamorphosis.

1. What is a life cycle?

The first sentence.

2. How is a mammal born?

Not from an egg.

3. What are the three insect stages before the adult?

They are named in order.

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Making the next generation

Read this first. Then answer the questions underneath.



Reproduction is how living things make more of their own kind. There are two ways.

Sexual reproduction usually needs two parents, and the offspring gets something from each, so it is not identical to either. Some living things are hermaphrodites and may fertilise themselves. Many animals reproduce sexually, and so do flowering plants through pollination.

Asexual reproduction needs only one parent, and the offspring is identical to it. A strawberry plant sends out runners that root and become new plants. A potato grows from part of another potato.

Both work. The difference is whether the offspring varies.

1. What is reproduction?

The first sentence.

2. How many parents does sexual reproduction need?

A number.

3. What does a strawberry plant send out?

One word.

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How each one is worked

The answers to the **work it out** questions are model answers. A child who says something different and can show you where on the page it came from has done the work.



FOUR LIFE CYCLES

1. What is a life cycle?

1. The passage says a life cycle is the stages it goes through from the start of its life to making the next generation.
2. So that is the answer.

Answer: **The stages it goes through from the start of its life to making the next generation**

2. How is a mammal born?

1. The passage says a mammal is born alive and fed on milk.
2. So the answer is **alive**.

Answer: **Alive**

3. What are the three insect stages before the adult?

1. The passage says an insect hatches as a larva, then becomes a pupa, then an adult.
2. So that is the answer.

Answer: **hatches as a larva, then becomes a pupa, then an adult**

4. What is the change of shape called?

1. The passage says the change of shape in an amphibian or an insect is called metamorphosis.
2. So the answer is **metamorphosis**.

Answer: **Metamorphosis**

5. WORK IT OUT What do a frog and a butterfly have in common that a cat does not?

1. A mammal looks like a small version of its parent and simply grows.
2. A tadpole and a larva do not.
3. Both go through metamorphosis and a mammal does not.

Answer: **Their young look nothing like the adult and change shape as they grow**

MAKING THE NEXT GENERATION

1. What is reproduction?

1. The passage says reproduction is how living things make more of their own kind.
2. So that is the answer.

Answer: **How living things make more of their own kind**

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SAMPLE PAGES

You have read a few pages. The pack is longer.

What you are holding is a short sample, taken from different parts of the pack so that you can see how a week is planned and what a child is actually asked to do, before you decide.

The complete pack, and the rest of the academic materials, are on our website: schemes of work for a parent teaching at home, and practice packs for the skills children get stuck on.

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Islamic and Academic Education

Members of the homeschool community do not buy these. If you have joined the community, the pack for the term you are working on is given to you at no cost.

Our Islamic Education classes are free. These packs are part of what pays the teachers who teach them.