# Science

### **Animals Including Humans**



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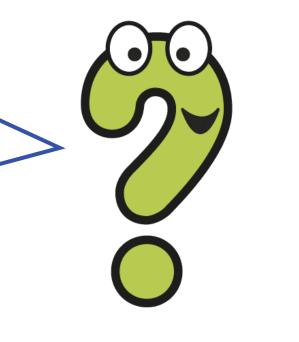
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### Meet Quizby!

Can you spot me in the Lesson Presentation?

The questions that appear will help you to think about the key learning throughout the lesson.





#### Animals Including Humans

life cicle



## Aim

• To find out how animals change as they grow into adults.

### **Success Criteria**

- I can compare the life cycles of different animals.
- I can use non-fiction texts to find out information.
- I can name and order the stages of a life cycle.



### **Remember It**



In Lesson 1, we looked at different animal groups and their offspring.

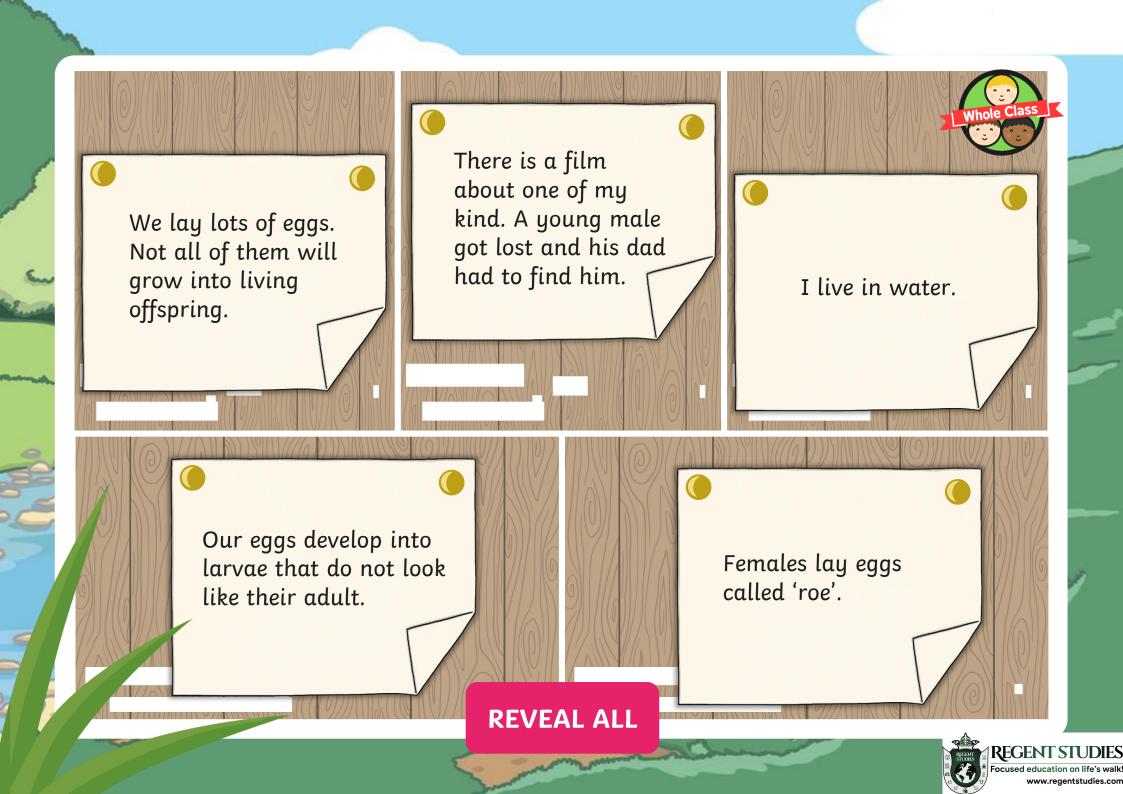
How much of this learning can you remember? Play the 'What Am I?' game to find out!

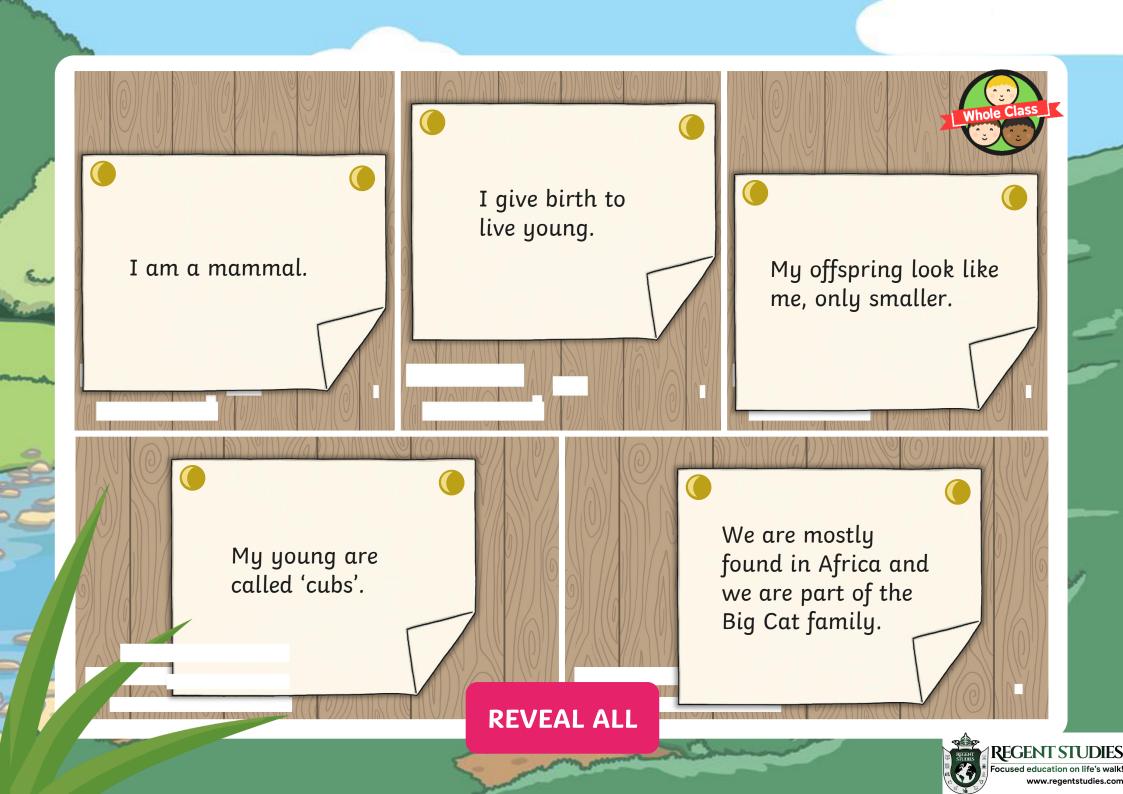
# Can you guess which animal is hidden behind the squares?

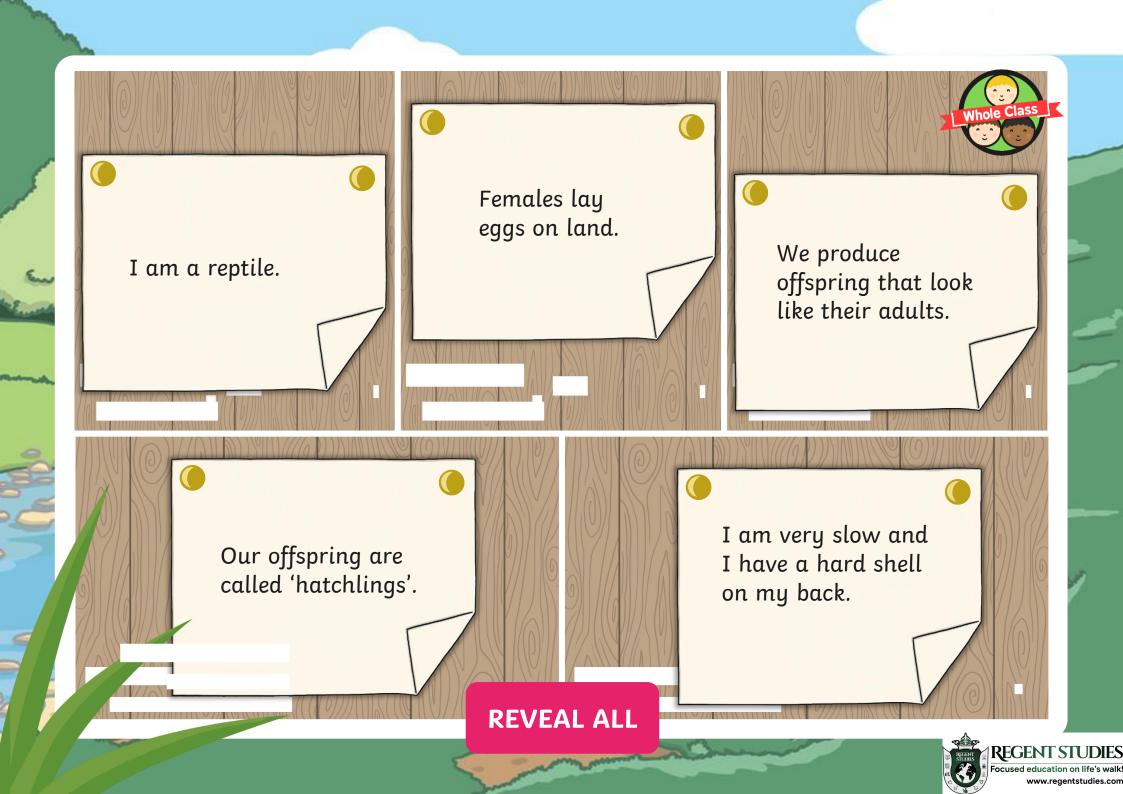
Read each clue, guess the animal and click to reveal part of the picture. Try to guess before the whole picture is revealed!

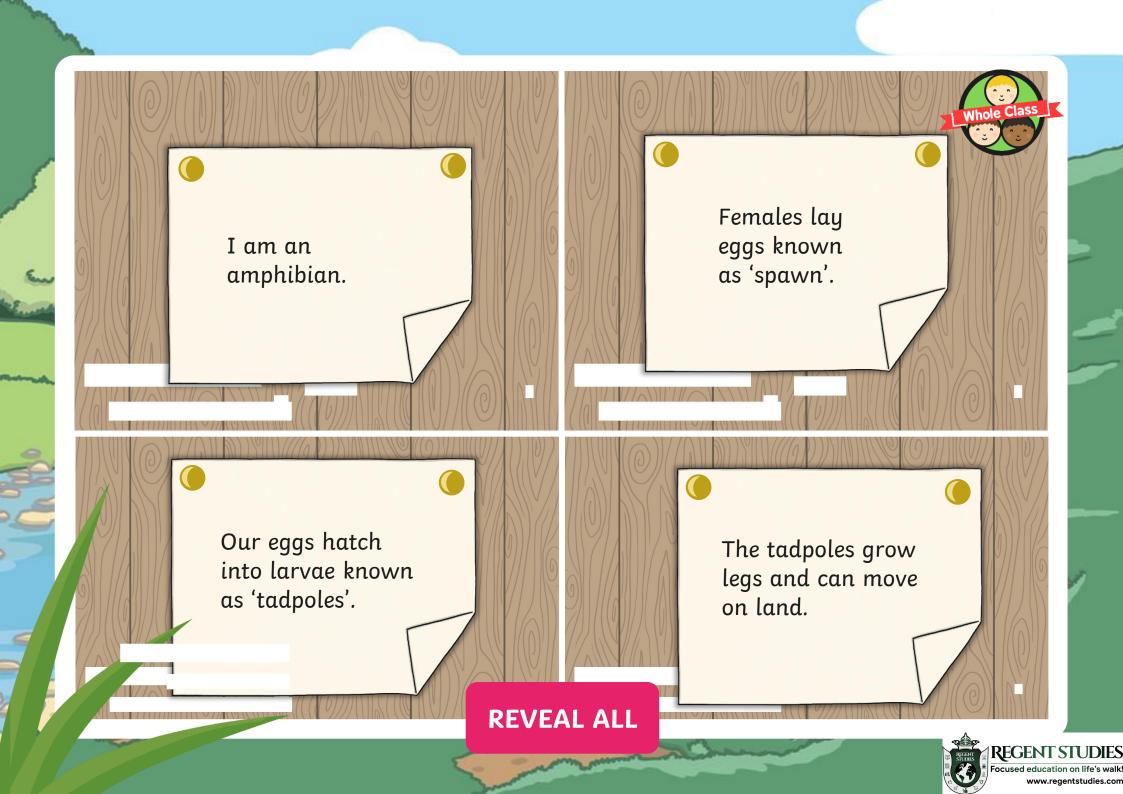
> PLAY GAME

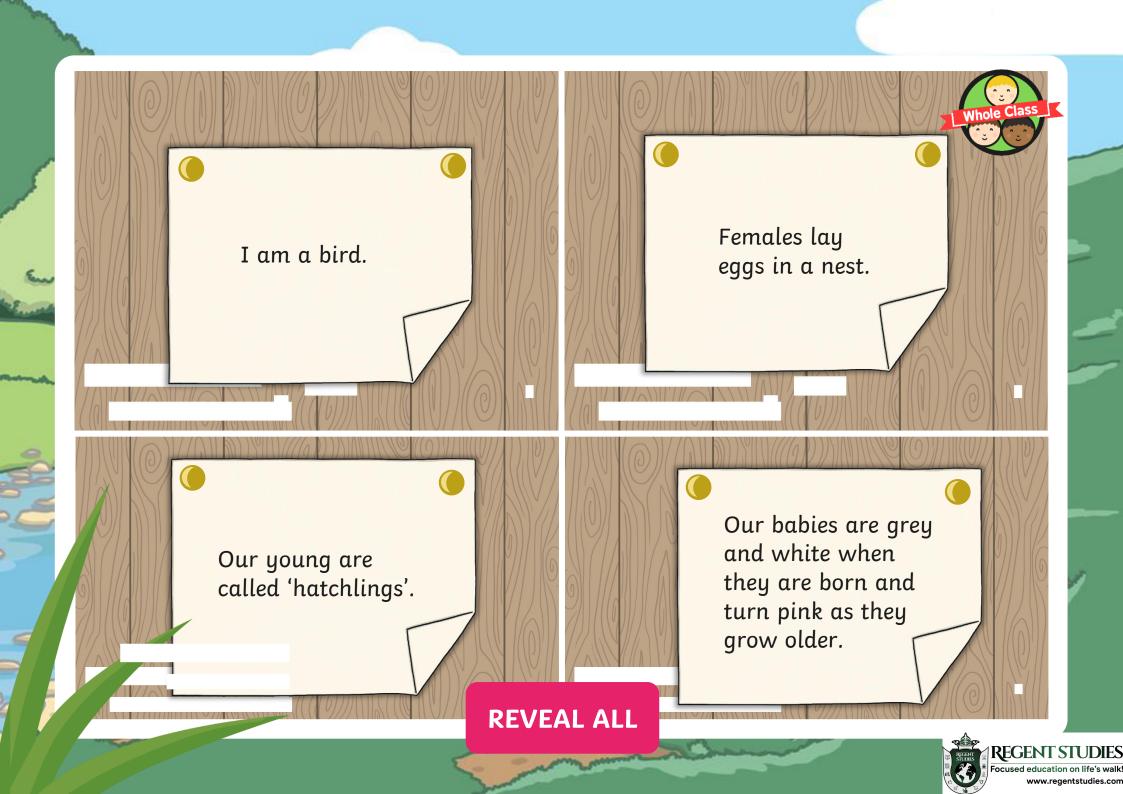
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### What Am I?



Now it's your turn. Pick one of these animals but don't tell anyone which one you have chosen.

Think of two or three clues about this animal and its offspring.

dolphin

robin

Can the class guess which animal you are describing?

<u>salamander</u>

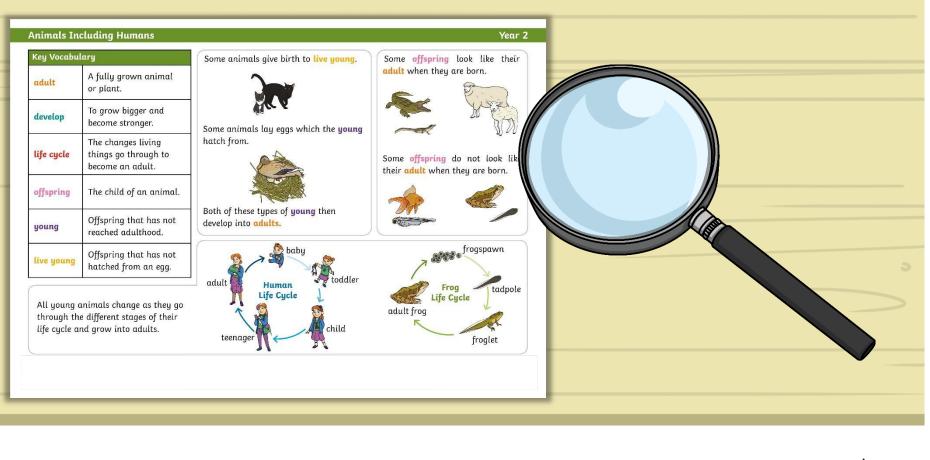


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# Whole Class

### How Animals Change as They Grow Up

In this lesson, we will be looking at this Key Knowledge on the **Knowledge Organiser**. Click the magnifying glass to zoom in.



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## How Animals Change as They Grow Up

Today, we are going to set up an exhibition.

#### What is an exhibition?

An exhibition is a display of something of interest (such as artwork), usually held in a museum, art gallery or library. Our classroom is going to become an exhibition! Your work for the display will explain the answer to this question:

How do animals change as they develop?

Let's start by looking at what you already know.



## Life Cycles



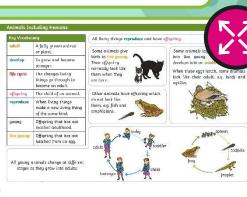
What is a life cycle?

A life cycle is the sequence of changes that a living thing goes through as it grows into an adult.

Have you seen any pictures or information that show a life cycle?

Which words do you already know that are linked to a life cycle?

Can you explain what any of those words mean?





# Life Cycles



We are going to look at the life cycles of some different animals.

First we will be looking at the life cycle of a sheep. Can you use everything you have learnt so far to answer these questions with your partner?

- 1. Which animal group does a sheep belong to?
- 2. Does the female sheep produce live young or lay eggs?
- 3. What are baby sheep called?

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- 4. Do the offspring look like the adult?
- 5. How do sheep change as they grow up?

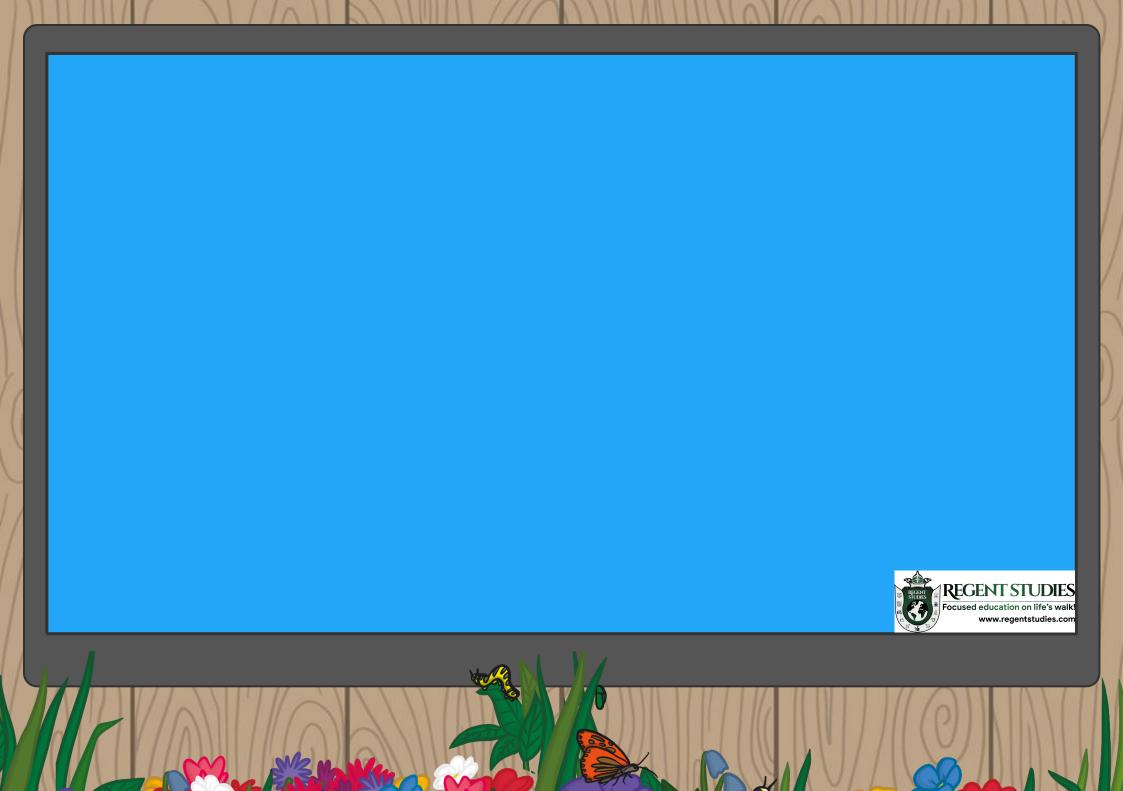
# Life Cycles



Can you answer these questions about the life cycle of a frog together?

- 1. Which animal group does a frog belong to?
- 2. Does the female frog produce live young or lay eggs?
- 3. What are the offspring of frogs called?
- 4. Do the offspring look like the adult frog?
- 5. How do frogs change as they grow up?





# Frog Life Cycle

4

The female frog **lays eggs**, called '**frogspawn**', in water. After one to three weeks, these eggs hatch into larvae. The larvae are called '**tadpoles**' and **do not look like** the adult frog.

Adult frogs can live on land and in water. They have no tail but their strong legs help them to swim and jump. Adult frogs are ready to have babies of their own.



Tadpoles live in water. They spend their time swimming, eating and growing. It takes several weeks for frog tadpoles to fully develop, but some types of **amphibians** can take months to become adults.

The tadpoles start to grow their back legs and then their front legs. Their heads get bigger and their lungs develop which will allow them to breathe out of the water. They are now called **'froglets**'.

### **Comparing Life Cycles**



What can you remember about the life cycle of a sheep (a mammal) and frog (an amphibian)? What are the differences?

Think about:

Do they have live young or lay eggs?

What are their young called?

Do the young look like their adult?

What changes do their young go through as they become an adult?





### **Comparing Life Cycles – Be Careful!**

All young animals develop as they grow into an adult, **but only some change completely.** 

Some animals, such as sheep, are born looking like their adult. These animal offspring may change colour as they grow up. However, some animals, such as frogs and butterflies, do not look like their adult when they are born and must go through a series of big changes to grow into an adult.

metamorphosis



### **Create Your Own Life Cycle**



How do animals change as they develop?

To answer this question, you are going to create your own life cycle of either a:

What could we use to find out information about these life cycles?

butterfly

duck

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human

### **Create Your Own Life Cycle**

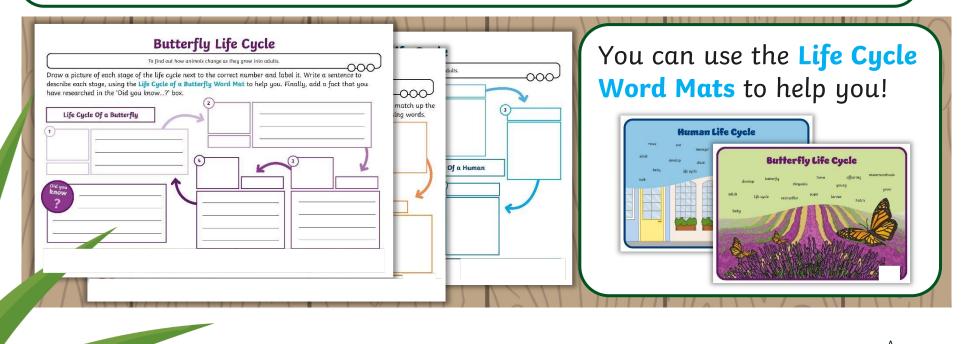


Awesome Offspring Healthy

How do animals change as they develop?

You can find out more about life cycles in this section of the **eBook**.

Use this information to create your own life cycle diagram for our exhibition!





### Life Cycle Diagrams



Once you have finished your life cycle diagram, try comparing it with the life cycle of a different animal you've looked at today (sheep, frog, human, duck or butterfly).

To spot any **similarities** and **differences** think about:

- 1. Which animal groups are they from?
- 2. Do they have live young or lay eggs?
- 3. Do the young look like their adult?





### What Have You Found Out?



Talk to your partner about what you have learnt about the **life cycles** of these animals. Click each animal to reveal some key words to help you.

You can say "I learnt that..."









## Aim

• To find out how animals change as they grow into adults.

### **Success Criteria**

- I can compare the life cycles of different animals.
- I can use non-fiction texts to find out information.
- I can name and order the stages of a life cycle.





#### **Animals Including Humans Scientific Knowledge**

#### Introduction

As part of the new framework, OFSTED inspectors will evaluate the extent to which "Teachers have a good knowledge of the subject(s) and courses they teach". This guidance has been provided to help you develop a broader knowledge of the concepts in this area of science and not just of the content taught in year 2. This will help you to anticipate and answer questions the children may pose. Alongside this, we have also provided some examples of the possible misconceptions you may find the children have.

#### Lesson

#### Scientific Knowledge

Lesson 1 Animal Offspring Animals that are viviparous give birth to live young. This is very common in mammals but also in other groups.

Oviparous animals produce eggs that develop and hatch outside of the body. Examples include birds.

Ovoviviparous animals produce eggs that hatch within the body. Examples include some fish and certain reptiles.

#### Patterns within groups:

#### Birds

All birds lay eggs.

#### Amphibians

Most amphibians lay eggs but there are a few that do not in this group. For example, many caecilians (a wormlike and limbless amphibian) give birth to live young.

#### Mammals

All mammals give birth to live young with the exception of monotremes (which includes the duck-billed platypus and echidnas) who lay eggs.

#### Fish

Most fish lay eggs but some do give birth to live young. For example, different species of shark can be oviparous, ovoviviparous or viviparous. The hammerhead example given in this lesson is viviparous.

#### Reptiles

Most reptiles lay eggs but some, such as some lizards and snakes, give birth to live young.

#### **Possible Child Misconceptions**

Animals quite often either do not seem to fit into their group or do not follow the patterns generally seen in their group. For example, dolphins and whales seem like fish but are actually mammals.

Throughout the lessons and **eBook** these irregularities are addressed (look out for the 'Be Careful!' slides in some **Lesson Presentations** throughout the unit).

Children should be encouraged to spot patterns within the different animal groups but should also be aware that biology doesn't always follow these patterns and there are often exceptions.

In this lesson, children sort animals into those offspring that do look like their adult when they are born and those that do not. Children may have the misconception that because an animal's young is a different colour or size, they do look different to their adult. However, when looking closely they should see that they do look similar to the adult. The aim of this activity is to identify the young that look drastically different to their adults (such as tadpoles) and to form the basis for understanding processes such as metamorphosis.





Lesson 2 Life Cycles This lesson examines how animal offspring grow into adults through the use of life cycle diagrams.

Metamorphosis describes the process in which there are major changes in the form or structure between the young and adult forms of an animal.

Metamorphosis is commonly found in the insect and amphibian groups but is also seen in some fish. Common examples of animals that undergo metamorphosis include frogs and butterflies.

We tend to call the pupa of a butterfly a 'chrysalis'.

See below (lesson 3) for further information about the human life cycle.

Children may assume that there is a sudden leap between each of the stages given in a life cycle diagram and nothing in between. Using the example of our own human life cycle is a good way to show how there are still changes in between each stage given.

Children can access the lesson content without using the term 'metamorphosis' (although this is used in the content and may be appropriate depending on your class) but should instead identify that some animals (such as frogs) have big changes across their life cycles.

The term 'cocoon' is often misused but may be one children have heard. It tends to be used when talking about the life cycle of moths. A cocoon is a silky protective covering that forms around the pupa of certain insects such as moths.





Lesson 3 Growing Up The stages in the human life cycle used in this lesson match those suggested in the non-statutory notes and guidance of the science national curriculum: baby, toddler, child, teenager and adult.

Pupils return to the human life cycle in year 5 where they will describe more stages and learn about adolescence and puberty.

Human growth can be separated into the following stages (some content here would not be appropriate for year 2 but is provided for your scientific knowledge):

- **Fertilisation:** The male and female sex cells fuse together.
- **Prenatal:** The cells develop and grow into a foetus inside the mother's uterus. After around nine months, the baby is born.
- **Infancy:** Rapid growth and development. Children may learn to walk and talk.
- **Childhood:** Children learn new skills and become more independent.
- Adolescence: The body starts to change over a few years. The changes occur to enable reproduction during adulthood.
- **Early adulthood:** The human body is at its peak of fitness and strength.
- **Middle adulthood:** Ability to reproduce decreases. There may be hair loss or hair may turn grey.
- Late adulthood: Leading a healthy lifestyle can help to slow down the decline in fitness and health which occurs during this stage.

This lesson focuses on different activities that humans can do at different stages in their life cycles. As people are all different and may do these activities at different times or not do them at all (including things like walking and talking), this lesson has been worded carefully to acknowledge this. This can also be addressed through further discussions with children. For example, some may think that everyone goes to university after school and it is important to discuss the fact that although many people do, there are also lots of other career paths and life choices that can be made at this stage.

Children may bring up elements of puberty in discussions (perhaps voice changes or changes in skin). However, puberty isn't referenced in the science curriculum until year 5 and the lesson does not cover this topic. Any comments regarding puberty from children should be handled in line with your school's policies on this topic.

Lesson 4 Survival All animals need oxygen (although the term 'oxygen' is used in this unit, it is not essential for covering the curriculum aims). Animals use this oxygen in their cells for a process called respiration (specifically aerobic respiration).

Respiration is a chemical reaction that provides energy for an organism. In aerobic respiration, energy is released from glucose (which comes from food) by reacting with oxygen.

Note that breathing and respiration are not the same thing. Breathing is generally described as the process of getting air in and out of the lungs. However, different animals have different ways of breathing that may not involve lungs. Fish have gills to remove oxygen from the water. The amphibian group can use multiple different ways of breathing including gills, lungs and breathing through their skin. Water, food and air are essential for us to stay alive but through discussion children should also be made aware of other things that we do need beyond these three absolute essentials (for example, education, appropriate shelter and exercise).

A misconception about fish not needing air and water is addressed in the Lesson Presentation.





| Lesson 5<br>Exercise       | Information in this lesson is matched to NHS<br>guidance on physical activity.<br>The NHS recommends that children and young<br>people aged 5-18 should aim to do an average of<br>at least 60 minutes of moderate intensity physical<br>activity a day across the week.<br>Please see the NHS website for more detailed<br>guidance on exercise requirements for children<br>and young people aged 5-18 years, including the<br>different types it should include.<br>See the Awesome Offspring to Healthy Adults<br>eBook for detail on what happens to our bodies<br>when we exercise.   | Children may think that exercise (or<br>physical activity) only involves team<br>sports (like football) or organised<br>activities (like PE lessons) but<br>actually the NHS also recommends<br>everyday activities such as walking<br>to school and skipping with a rope. |
|----------------------------|---|--|
| Lesson 6<br>Healthy Living | <ul> <li>Information in this lesson matches the government<br/>and NHS Eatwell Guide guidance. Please see the<br/>NHS and government Eatwell Guide webpages for<br/>more detailed information on this.</li> <li>Nutrients are substances that living things need<br/>to stay alive and healthy. Children learn more<br/>about specific nutrients in our year 3 'Animals<br/>Including Humans' unit. Briefly, each group does<br/>the following:</li> <li>Carbohydrates: provide energy</li> <li>Protein: helps growth and repair</li> <li>Fibre: helps us digest the food that we<br/>have eaten</li> <li>Fats: provide energy</li> <li>Vitamins and minerals: keep us healthy (for<br/>example: help us grow, keep our bones strong,<br/>boost the immune system)</li> <li>Water: moves nutrients around our bodies and<br/>helps us to get rid of waste.</li> </ul> | Food can be a sensitive issue and<br>the lessons and eBook are worded<br>carefully to reflect this. Adapt<br>discussions as needed for your<br>specific class and see the Eatwell<br>Guide information for more detail<br>on the current government/NHS<br>guidance.       |





### Animals Including Humans: Life Cycles

| data to help   | animals, including humans, have offspring which grow i<br>in answering questions.   | Aim for this lesson<br>to take one and a<br>half hours.   | 90<br>mins   |               |  |  |  |
|--|---|---|--|---------------|--|--|--|
| To find out h  | now animals change as they grow into adults.  |   |  | Approx.       |  |  |  |
| I can use no   | re the life cycles of different animals.<br>n-fiction texts to find out information.  | Preparation<br>Awesome Offspring to Healthy Adults eBook on an<br>electronic device or Life Cycles eBook Printouts – as<br>required   |  |               |  |  |  |
| I can name and order the stages of a life cycle. Standard School Equipment |   | Life Cycle Templates - as require   | ed (an A4 and A3   |               |  |  |  |
| Standard So<br>Scissors<br>Large plain p                                   |   | version is provided) Life Cycle of a Human/Duck/But required  | tterfly Word Mat – as  |               |  |  |  |
| Glue sticks  |   | Reasoning Cards: Life Cycles –  | as required  |               |  |  |  |
|  | access to laptops/tablets/computers for viewing the<br>s is not printed   | Optional<br>Knowledge Organiser – per child   | 1  |               |  |  |  |
| Art materials<br>collage mate  | s (such as colouring pencils, pastels, paint or<br>erials)  |   |  |               |  |  |  |
| Adult, young<br>froglet, duck  | g, offspring, develop, life cycle, live young, egg, metamor<br>kling, hatchling.  |   | _  | _             |  |  |  |
|  | g, offspring, develop, life cycle, live young, egg, metamor<br>kling, hatchling.<br>In Lesson 1, children matched young animals to the<br>adult or not. They started to spot general patterns ab  | ir adults and then sorted them accord   | ding to whether they lo  |               |  |  |  |
| Adult, young<br>froglet, duck<br>Prior Learnir                             | g, offspring, develop, life cycle, live young, egg, metamor<br>kling, hatchling.<br>In Lesson 1, children matched young animals to the<br>adult or not. They started to spot general patterns ab  | ir adults and then sorted them accord<br>yout adults and their offspring within t<br>soon Presentation, recap knowledge   | ding to whether they lo<br>he animal groups.   |               |  |  |  |
| Adult, young<br>froglet, duck<br>Prior Learnir                             | g, offspring, develop, life cycle, live young, egg, metamor<br>kling, hatchling.<br>In Lesson 1, children matched young animals to the<br>adult or not. They started to spot general patterns ab<br>quence<br>Remember It: Using the interactive game on the Les  | ir adults and then sorted them accord<br>yout adults and their offspring within t<br>soon Presentation, recap knowledge<br>ganiser.<br>he relevant section of the Knowledg<br>on – the children are going to open a   | ding to whether they lo<br>he animal groups.<br>and understanding<br>e Organiser on the<br>n exhibition (for the   | ook like thei |  |  |  |
| Adult, young<br>froglet, duck<br>Prior Learnir                             | <ul> <li>g, offspring, develop, life cycle, live young, egg, metamoreling, hatchling.</li> <li>In Lesson 1, children matched young animals to the adult or not. They started to spot general patterns ab quence</li> <li>Remember It: Using the interactive game on the Less from the previous lesson. Refer to the Knowledge Org</li> <li>How Animals Change as They Grow Up: Introduce t Lesson Presentation. Explain the context of the less</li> </ul>  | ir adults and then sorted them accord<br>bout adults and their offspring within t<br>asson Presentation, recap knowledge<br>ganiser.<br>The relevant section of the Knowledge<br>on – the children are going to open a<br>w different animals change as they gr<br>children's knowledge of a life cycle. U<br>arts of the sheep life cycle. They the<br>for a frog life cycle (which also incl<br>ag key vocabulary, can children descri  | ding to whether they lo<br>he animal groups.<br>and understanding<br>e Organiser on the<br>n exhibition (for the<br>ow into adults.<br>Jsing the questions<br>n check their ideas<br>ludes an animation  | ook like thei |  |  |  |
| Adult, young<br>froglet, duck<br>Prior Learnir                             | <ul> <li>g. offspring, develop, life cycle, live young, egg, metamor cling, hatchling.</li> <li>In Lesson 1, children matched young animals to the adult or not. They started to spot general patterns ab quence</li> <li>Remember It: Using the interactive game on the Less from the previous lesson. Refer to the Knowledge Org</li> <li>How Animals Change as They Grow Up: Introduce t Lesson Presentation. Explain the context of the less rest of the class or appropriate visitors) explaining ho</li> <li>Life Cycles: Using the Lesson Presentation, discuss given, children share their initial ideas for the key pa against the life cycle provided. Repeat this process to watch).</li> <li>Can children explain why it is called a life cycle? Using the set of the context of the less or the set of the context of the less for watch.</li> </ul> | ir adults and then sorted them accord<br>bout adults and their offspring within t<br>ason Presentation, recap knowledge<br>ganiser.<br>The relevant section of the Knowledge<br>on – the children are going to open at<br>w different animals change as they gr<br>children's knowledge of a life cycle. It<br>arts of the sheep life cycle. They the<br>for a frog life cycle (which also incl<br>are a frog life cycle (which also incl<br>and a frog life cycle (which also incl<br>and a frog source of the sheep using the pro-<br>the cheep (amphibians compared to many<br>they can think of any other animals the | ding to whether they lo<br>he animal groups.<br>and understanding<br>e Organiser on the<br>n exhibition (for the<br>row into adults.<br>Jsing the questions<br>n check their ideas<br>ludes an animation<br>be the main stages<br>mpts on the Lesson<br>mals) because they | bok like thei |  |  |  |





| Children read p.19 -<br>22 of the eBook to<br>research the human<br>life cycle. They use<br>the human life cycle<br>template from the<br>Life Cycle Templates<br>to identify and order<br>the key stages.<br>Children could then<br>orally explain each<br>stage (which could be<br>recorded and played at<br>the 'exhibition') or write<br>a sentence for each<br>stage. A Life Cycle of<br>a Human Word Mat is<br>provided for support. | Children read p.19<br>to p.24 of the <b>eBook</b><br>to research the life<br>cycles of a human<br>and a duck. They then<br>use the duck template<br>from the Life Cycle<br>Templates to create a<br>duck life cycle by filling<br>in the key vocabulary<br>and then ordering the<br>stages. Children could<br>then compare, as a<br>group discussion, the<br>life cycles of humans<br>and ducks. A Life<br>Cycle of a Duck Word<br>Mat is provided for<br>support. | Children read p.19 to<br>p.26 of the eBook.<br>They then use the<br>butterfly template<br>from the Life Cycle<br>Templates to create<br>their life cycle. They<br>could then use either<br>the internet with adult<br>support or class<br>books to add a 'Did<br>you know?' section.<br>Children could then<br>compare, as a group<br>discussion, the life<br>cycles of a human,<br>duck and butterfly.<br>A Life Cycle of a<br>Butterfly Word Mat is<br>provided for support. |
|---|--|--|
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Exhibitit: Children set the classroom up as an exhibition all about life cycles. They can look at each other's work and appropriate guests could be invited.
 Observeit: You may wish to purchase a caterpillar to butterfly growing kit to keep in the classroom. Children could make predictions for how

long it will take for the butterfly to emerge and make observations, using a hand lens to draw the growth at different stages.

#### **Reason**it

Children discuss Reasoning Cards: Life Cycles. Children compare the life cycles of a human, duck and frog.

#### Assessment

| Science Knowledge  |           |
|--|-----------|
| Working Towards the Expected Level   | Children: |
| Children can name and order the main life cycle<br>stages of at least one animal. With support, they<br>can describe the features of each stage.                                       |           |
| Working At the Expected Level  | Children: |
| Children can describe the main stages of at least<br>two different animal life cycles. They start to<br>compare these life cycles.   |           |
| Working At Greater Depth   | Children: |
| Children can describe the main stages of at least<br>three different animal life cycles. They can suggest<br>multiple similarities or differences when comparing<br>these life cycles. |           |





| Working Scientifically   |           |
|--|-----------|
| Working Towards the Expected Level   | Children: |
| Children can, with help, use simple secondary sources to find answers to a question. |           |
| Working At the Expected Level  | Children: |
| Children can use simple secondary sources to find answers to a question.             |           |
| Working At Greater Depth   | Children: |
| Children can use a range of simple secondary sources to find answers to a question.  |           |





| Aim: To find out how animals change as they grow into adults. |        |         |                |                     | Date:                   |                           |                             |                                |  |  |
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| Ме  | Friend | Teacher | т              | РРА                 | S                       | I                         | AL                          | GP                             |  |  |
|   |        |         | Notes/Evidence |                     |                         |                           |                             |                                |  |  |
|   |        |         |                |                     |                         |                           |                             |                                |  |  |
|   |        |         |                |                     |                         |                           |                             |                                |  |  |
|   |        |         |                |                     |                         |                           |                             |                                |  |  |
| Next Steps  |        |         |                |                     |                         |                           |                             |                                |  |  |
| •   |        |         |                |                     |                         |                           |                             |                                |  |  |
|   |        |         |                |                     |                         |                           |                             |                                |  |  |
|   |        |         |                | Me Friend Teacher T | Me Friend Teacher T PPA | Me Friend Teacher T PPA S | Me Friend Teacher T PPA S I | Me Friend Teacher T PPA S I AL |  |  |

| т   | Teacher                              | I  | Independent     |
|-----|--------------------------------------|----|-----------------|
| PPA | Planning, Preparation and Assessment | AL | Adult Led       |
| s   | Supply                               | GP | Guided Practice |

| Aim: To find out how animals change as they grow into adults. |    |        |         | Date:          |                        |   |   |    |    |
|---|----|--------|---------|----------------|------------------------|---|---|----|----|
|   |    |        |         |                | Delivered By: Support: |   |   |    |    |
| Success Criteria  | Ме | Friend | Teacher | т              | РРА                    | S | I | AL | GP |
| I can compare the life cycles of different animals.           |    |        |         | Notes/Evidence |                        |   |   |    |    |
| I can use non-fiction texts to find out information.          |    |        |         |                |                        |   |   |    |    |
| I can name and order the stages of a life cycle.              |    |        |         |                |                        |   |   |    |    |
|   |    |        |         |                |                        |   |   |    |    |
| Next Steps  |    |        |         |                |                        |   |   |    |    |
| •   |    |        |         |                |                        |   |   |    |    |
| •   |    |        |         |                |                        |   |   |    |    |

т



| Teacher | I | Independent |
|---------|---|-------------|

| PPA | Planning, Preparation and Assessment | AL | Adult Led       |
|-----|--------------------------------------|----|-----------------|
| S   | Supply                               | GP | Guided Practice |



| Animals Including Humans   Life Cycles                   |  |  |  |  |  |
|--|--|--|--|--|--|
| To find out how animals change as they grow into adults. |  |  |  |  |  |
| I can compare the life cycles of different animals.      |  |  |  |  |  |
| I can use non-fiction texts to find out information.     |  |  |  |  |  |
| I can name and order the stages of a life cycle.         |  |  |  |  |  |

#### Animals Including Humans | Life Cycles

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| I can use non-fiction texts to find out information.     |  |
| I can name and order the stages of a life cycle.         |  |

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