



# Weekly learning pack

Year 5

English

Task 1 part 1 – Reading

This week you will be reading a story called “life on Earth would not be possible without trees”

You need to read the text on slides 1&2 and then answer the questions on slide 3.

# Life on Earth would not be possible without trees

By National Geographic Society, adapted by Newsela staff on 04.25.19

Word Count 421

Level 560L



Image 1. Logs up for auction in Slovenj Gradec, Slovakia, February 13, 2019. A log auction has been held here for 13 years. This year, most of the bids came from China. Photo by Milos Vujanovic/SOPA Images/LightRocket via Getty Images

There are many reasons to be thankful for trees. The beautiful plants provide homes for animals. They also produce oxygen. Without oxygen, there would be no life on Earth. Trees also supply important products such as wood, paper and fruit.

Unfortunately, only some of Earth's surface is forested. There are three different types of forests. Boreal forests are located the farthest north. Tropical forests are found close to the equator. Temperate forests grow in between these two.

Trees need specific conditions to grow. Healthy soil, sunlight and rainfall are all important. Temperature also matters. Most trees do not grow well in very hot or very cold areas. Trees need conditions that are just right.



**NATIONAL  
GEOGRAPHIC**

Even then, they are not always safe. Trees face a number of threats such as pests. One serious pest is the mountain pine beetle. It has destroyed many square miles of forest.

### **Both Nature And Humans Can Hurt Forests**

Another threat to forests is fire. Lightning strikes can set entire forests on fire. Heavy winds can quickly spread a fire. Forest fires have become a big problem in the western United States. Fires are part of the natural cycle in forests. Droughts have become more common, though. So have high temperatures. As a result, forest fires are changing. They are becoming larger and more dangerous.

Less common problems include earthquakes and volcanoes. In 1980, Mount St. Helens erupted in Washington State. It knocked over thousands of trees. The eruption also caused volcanic mudflows. They ripped trees from the ground and scattered them across the land.

Human activities hurt forests as well. Some forests are cut down for wood or to clear the land. Tree removal is taking place in many regions. It can be harmful to ecosystems. Cutting down forests reduces biodiversity. It destroys habitats and forces animals to move. Cutting down forests is also harmful to the native people who live in or near forests. Many of these people rely on the forest. They need it for food and shelter.

Trees do not grow equally around the planet. Some regions have more forests than others. This inequality has important effects. In areas without forests, there are no forest products to be sold. People in those areas miss out on certain benefits. They miss out on money from tourism. They also do not have the pleasure of being in the forest.



Why does life on Earth need trees?

- (A) because trees make oxygen
- (B) because trees need sunlight
- (C) because trees help tourism
- (D) because trees keep us safe

How do droughts affect forest fires?

- (A) Droughts help forest fires slow down.
- (B) Droughts make forest fires smaller.
- (C) Droughts help forest fires end quickly.
- (D) Droughts make forest fires worse.

Read the selection from the section "Both Nature And Humans Can Hurt Forests."

*Cutting down forests is also harmful to the native people who live in or near forests. Many of these people rely on the forest. They need it for food and shelter.*

What does the phrase "rely on" mean?

- (A) live on top of
- (B) tear down
- (C) depend upon
- (D) come from

Read the following selection from the introduction [paragraphs 1-4].

*Trees face a number of threats such as pests. One serious pest is the mountain pine beetle. It has destroyed many square miles of forest.*

Which word could replace "threats" WITHOUT changing the meaning of the sentence?

- (A) diseases
- (B) dangers
- (C) battles
- (D) animals

## Task 3-Writing

Write a short paragraph about what you have learnt from the text about nature and how tree's affect the Earth and the Environment.

Include year 5 GPS features.

### Features

Parenthesis – brackets, dashes and commas

Subjunctive form – if, I hope, I wish

Modal verbs for possibility- would, could, should, will and may

Modal adverbs for possibility- certainly, definitely and surely

A colon – to introduce a list

## Direct and reported speech

We can write speech in two ways – as direct speech or as reported speech.

The ancient cat said, "I hate those wicked Goddesses."

This is direct speech.  
The cat's exact words are inside the speech marks.

The ancient cat said that he hated the wicked Goddesses.

This is reported speech.  
The cat's exact words are not used.  
Speech words are not used either.



## Practice

After each sentence, write if direct speech (DS) or reported speech (RS) is used.

1. "Why are you late?" the Topher asked. \_\_\_\_\_
2. The priestess said that the Ka had to be sacrificed. \_\_\_RS\_\_\_
3. Tessa, Topher's mum, remarked that it was a lovely day. \_\_\_RS\_\_\_
4. "Please help me wash up, Topher," his dad requested. \_\_\_DS\_\_\_
5. "Send for Ka!" the Topher shouted. \_\_\_DS\_\_\_
6. The priestess said that she would come after us. \_\_\_RS\_\_\_
7. Ka said, "I will come with you." \_\_\_DS\_\_\_
8. "It's too cold," the Topher complained. \_\_\_DS\_\_\_



## Challenge

Write these sentences as reported speech.

1. "How old are you?" the priestess asked Topher.  
The priestess asked Topher how old he was.
2. "Bring me my sacrifice," the ~~preistess~~ priestess ordered the servant.

---

3. Topher said, "We must save mum, Ka."

---

4. "The sacrifice is about to happen" the children cried.

---

5. "We're free at last," boasted Topher.

---

#### Task 4- Spelling and GPS

**Insert a dash into this sentence.**

It was a beautiful day I felt so lucky.

**Complete this sentence by adding a relative clause.**

I climbed the tree

**Insert a pair of commas in the correct place in the sentence below.**

I enjoy sitting in my bedroom even though it is quite small and listening to music.

**Circle the conjunction in each sentence.**

We like to eat popcorn when we go to the cinema.

Although my sister likes salted popcorn, I prefer sweet popcorn.

#### Task 4- Spelling and GPS

Practise each word 5 times (look, say, cover write and check).

Choose two and write their definitions. Choose two to write in sentences.

Achieve

Ceiling

Conceive

Caffeine

Conceit

Deceit

Deceive

Neither

Either

Receipt

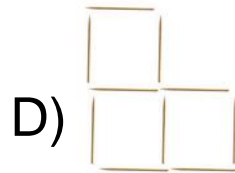
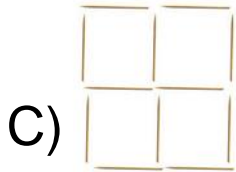
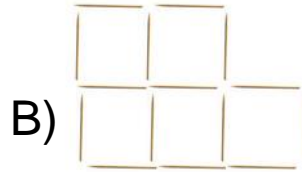
Maths

Perimeter

## To be able to measure perimeter

### STARTER:

Which one is different?



### **Success Criteria:**

#### **Mastery:**

I can measure the perimeter of rectilinear shapes without grids.

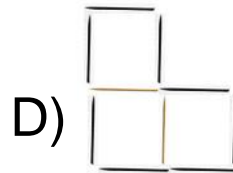
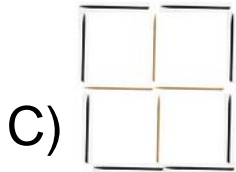
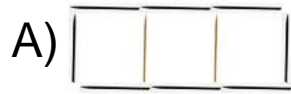
#### **Greater Depth:**

I can apply my knowledge of measuring perimeter to solve open-ended problems involving rectilinear shapes.

## To be able to measure perimeter

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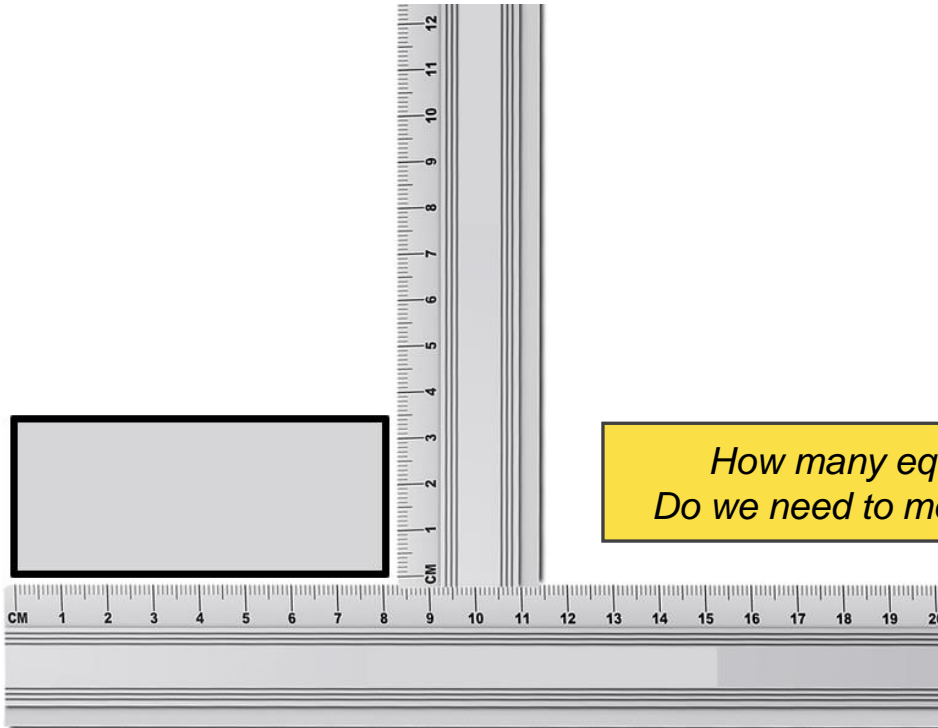
There are several possible answers. Here is one that relates to the perimeter of the shapes:

**Shape B is different because all of the others have a perimeter of 8 square lengths. Shape B has a perimeter of 10 square lengths.**

## To be able to measure perimeter

### TALKING TIME:

Measure the perimeter of this shape.



*How many equal sides does a rectangle have?  
Do we need to measure all of the sides to this shape?*

### **Success Criteria:**

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I can measure the perimeter of rectilinear shapes without grids.

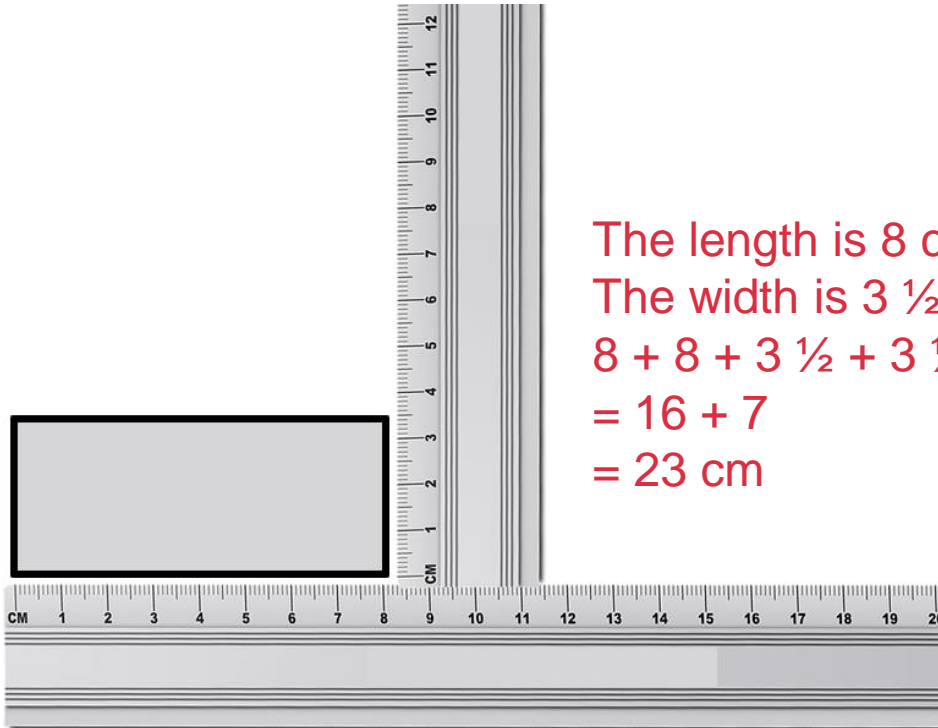
#### **Greater Depth:**

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## To be able to measure perimeter

### TALKING TIME:

Measure the perimeter of this shape.



$$\begin{aligned}
 &\text{The length is 8 cm.} \\
 &\text{The width is } 3 \frac{1}{2} \text{ cm.} \\
 &8 + 8 + 3 \frac{1}{2} + 3 \frac{1}{2} \\
 &= 16 + 7 \\
 &= 23 \text{ cm}
 \end{aligned}$$

### **Success Criteria:**

#### **Mastery:**

I can measure the perimeter of rectilinear shapes without grids.

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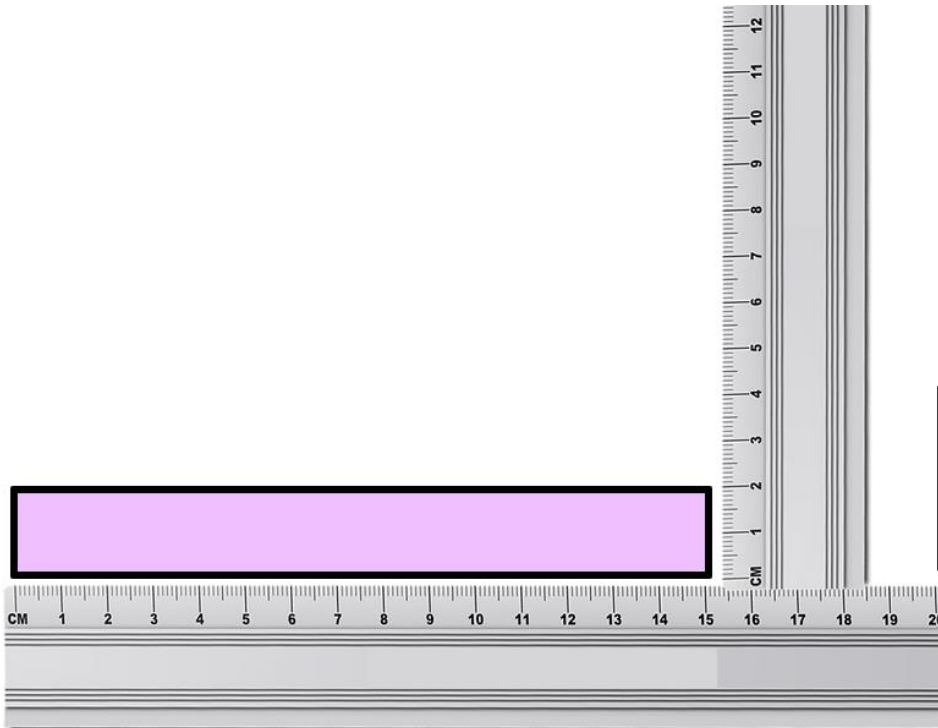
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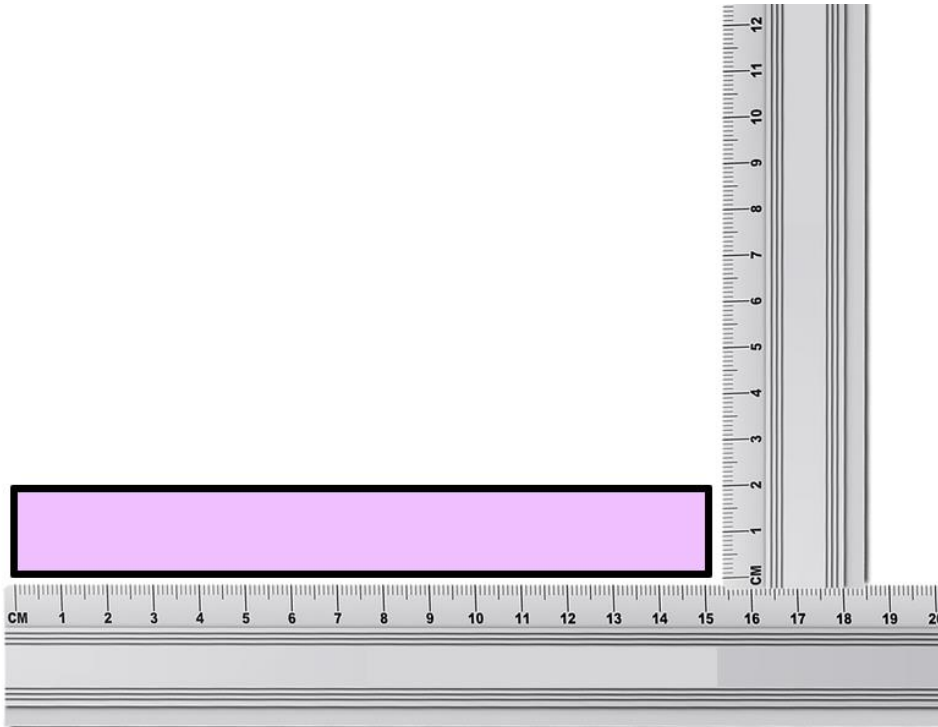
I can apply my knowledge of measuring perimeter to solve open-ended problems involving rectilinear shapes.

*How can you use what you know about the properties of a rectangle to help find the answer?*

## To be able to measure perimeter

### TALKING TIME:

Measure the perimeter of this shape.



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The length is 15 cm.

The width is 2 cm.

$$\begin{aligned} &15 + 15 + 2 + 2 \\ &= 30 + 4 \\ &= 34 \text{ cm} \end{aligned}$$

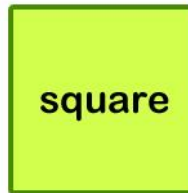
## To be able to measure perimeter

### TALKING TIME:

How many sides would you need to measure to find each perimeter?



Rectangles have two pairs of equal sides, so we only need to measure one of each pair (one length and one width).



Squares have four equal sides, so we only need to measure one side.

### **Success Criteria:**

#### **Mastery:**

I can measure the perimeter of rectilinear shapes without grids.

#### **Greater Depth:**

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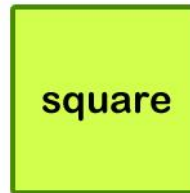
### **Extension:**

Can you think of any other shapes where you would only need to measure one side to find the perimeter?

## To be able to measure perimeter

### TALKING TIME:

How many sides would you need to measure to find each perimeter?



### **Success Criteria:**

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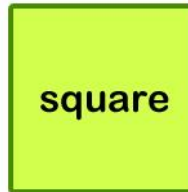
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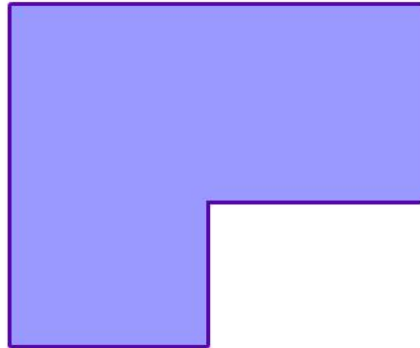
### **Extension:**

Can you think of any other shapes where you would only need to measure one side to find the perimeter?

## To be able to measure perimeter

### TALKING TIME:

Which sides would you need to measure to find the perimeter of this shape?



### **Success Criteria:**

#### **Mastery:**

I can measure the perimeter of rectilinear shapes without grids.

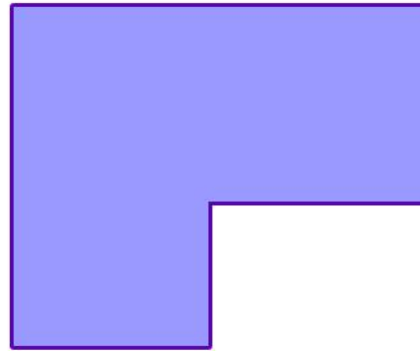
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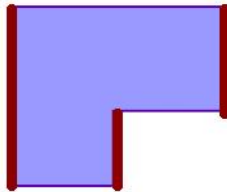
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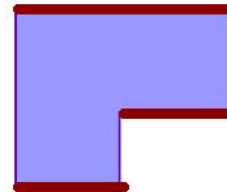
I can apply my knowledge of measuring perimeter to solve open-ended problems involving rectilinear shapes.

To find the perimeter, we would need to measure...



...either the one long vertical side or the two shorter vertical sides...

...AND ALSO...

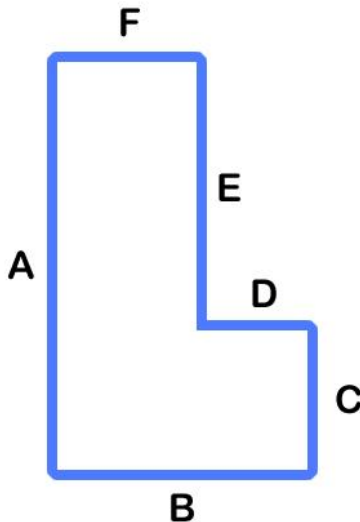


...either the one long horizontal side or the two shorter horizontal sides...

## To be able to measure perimeter

### EVALUATION:

### True or False?



- a) Length A is the same as Lengths D and E put together.
- b) Length F + Length D = Length B
- c) This shape has the same perimeter as a rectangle with side lengths the same as Length A and Length B.
- d) If we just measure lengths B, D, E and F, we can work out the perimeter.

### **Success Criteria:**

#### **Mastery:**

I can measure the perimeter of rectilinear shapes without grids.

#### **Greater Depth:**

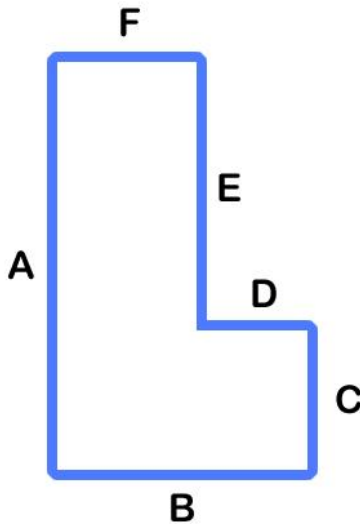
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## To be able to measure perimeter

### EVALUATION:

### True or False?



- a) Length A is the same as Lengths D and E put together. **FALSE**
- b) Length F + Length D = Length B **TRUE**
- c) This shape has the same perimeter as a rectangle with side lengths the same as Length A and Length B. **TRUE**
- d) If we just measure lengths B, D, E and F, we can work out the perimeter. **FALSE**

### **Success Criteria:**

#### **Mastery:**

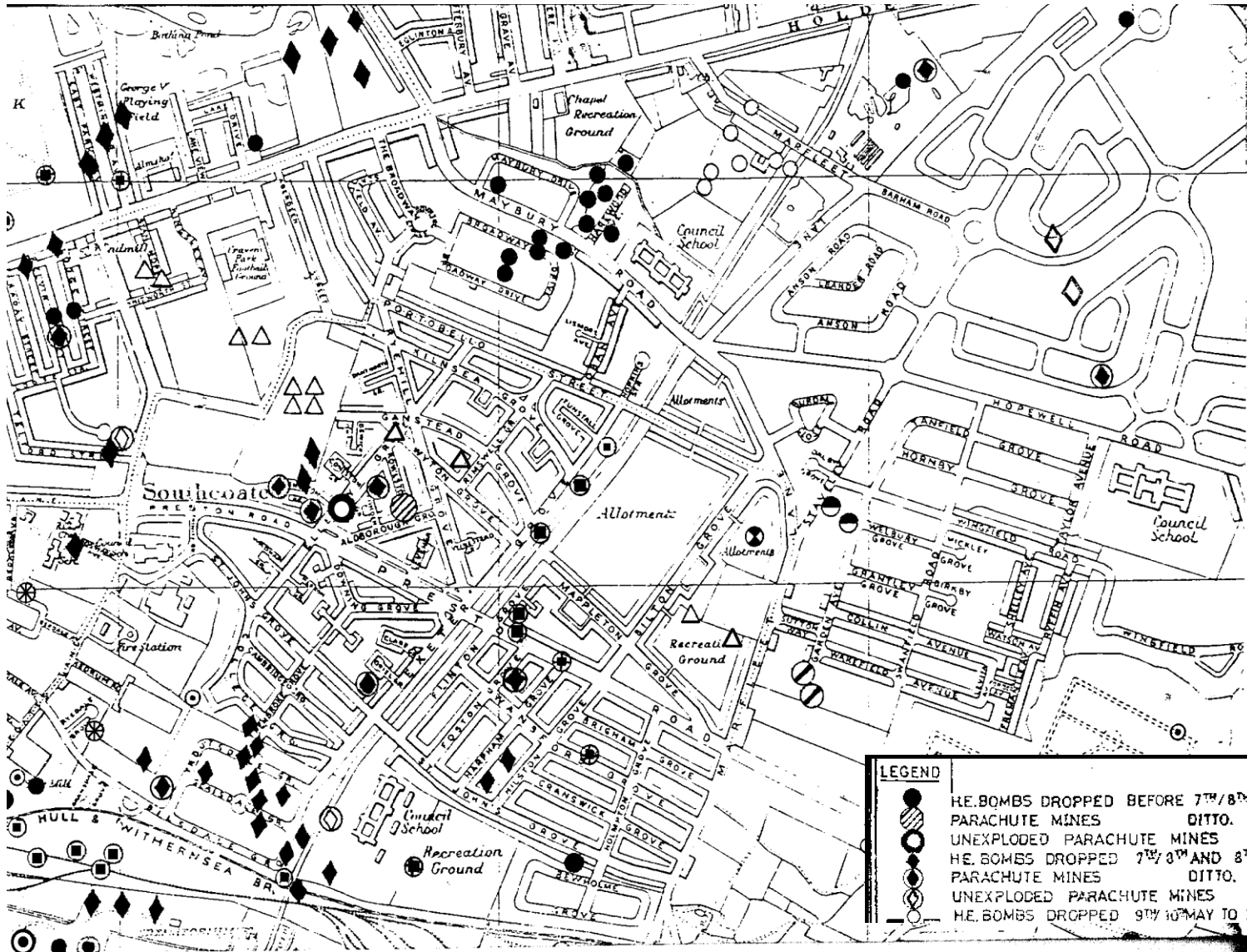
I can measure the perimeter of rectilinear shapes without grids.

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# Curriculum (Geography)

Task- use maps, and digital computer mapping to identify changes to Hull This is a map WW2 era or near where Mountbatten school now is. The map has plotted where Germans dropped bombs during WW2. Make a list of changes you see between the old map (slide 1) and digital maps (on slides 2&3).



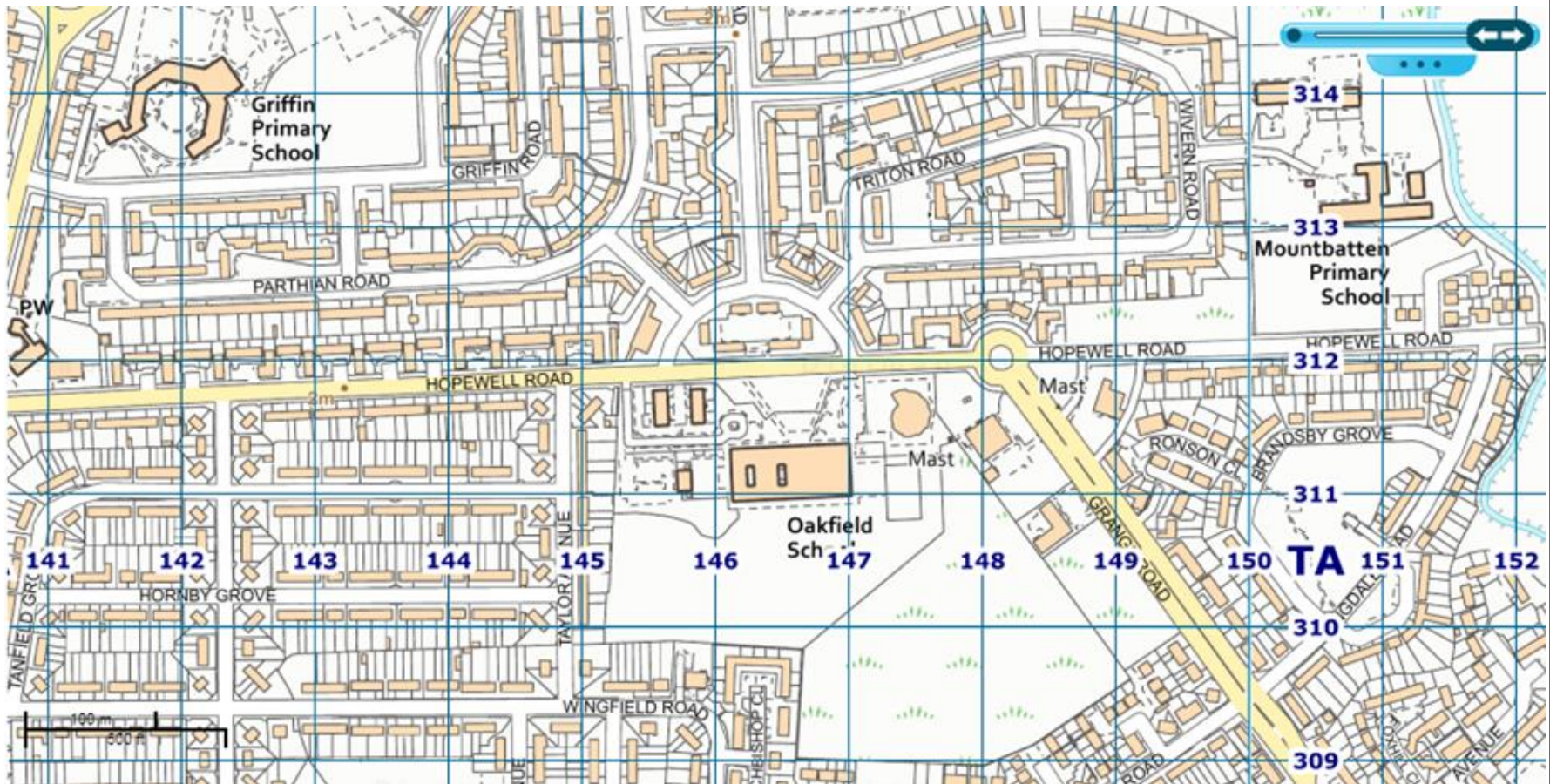
Wivern Road  
 ↓

LEGEND	
●	HE.BOMBS DROPPED BEFORE 7 <sup>TH</sup> /8 <sup>TH</sup> MAY, 1941.
◐	PARACHUTE MINES DITTO.
◑	UNEXPLODED PARACHUTE MINES DITTO.
◒	HE.BOMBS DROPPED 7 <sup>TH</sup> /8 <sup>TH</sup> AND 27 <sup>TH</sup> /28 <sup>TH</sup> MAY 1941.
◓	PARACHUTE MINES DITTO.
◔	UNEXPLODED PARACHUTE MINES DITTO.
◕	HE.BOMBS DROPPED 27 <sup>TH</sup> /28 <sup>TH</sup> MAY TO 28 <sup>TH</sup> /29 <sup>TH</sup> JUNE, 1941, INCL.

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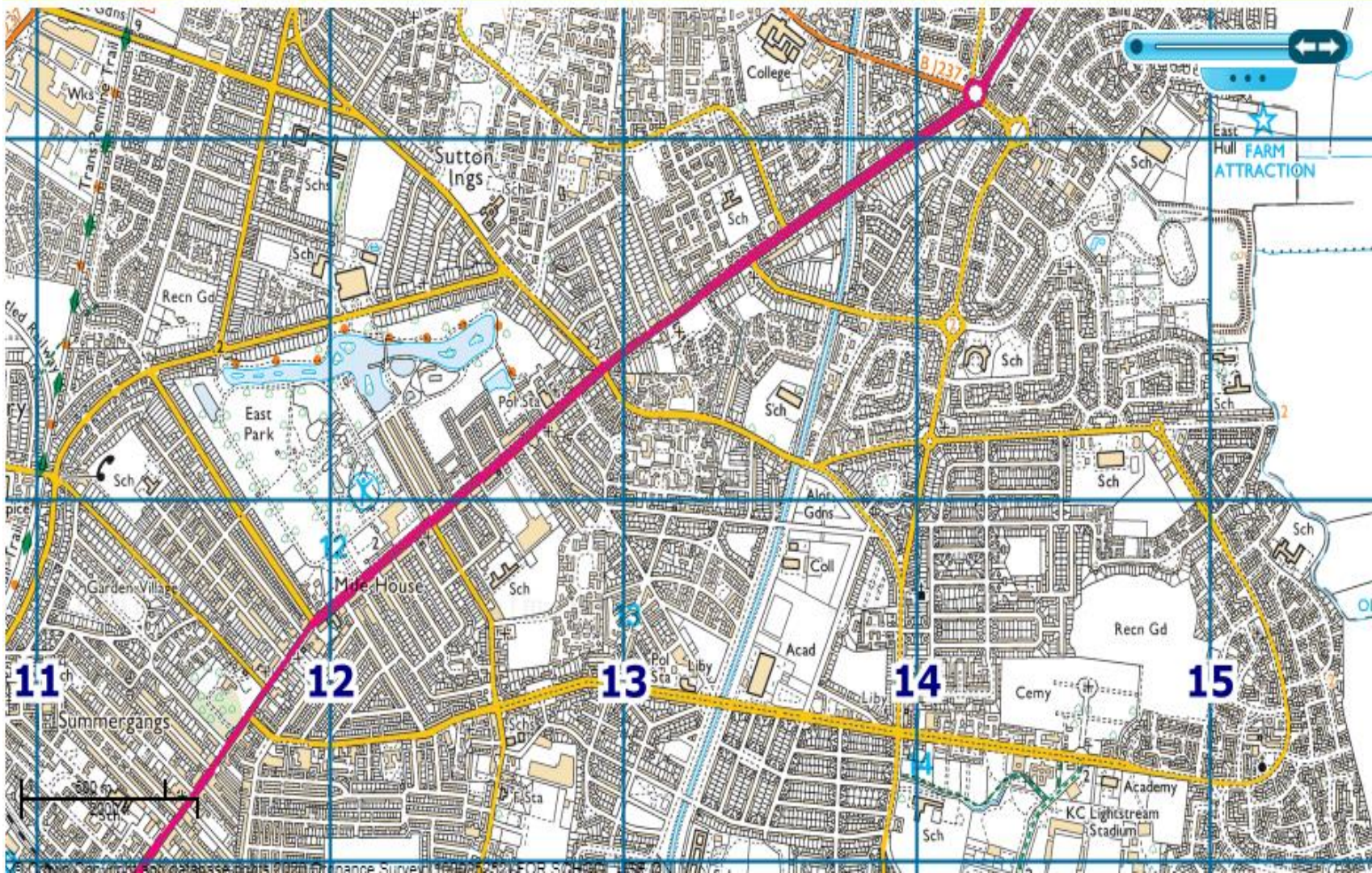


Wivern Road



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Wivern Road  
Road

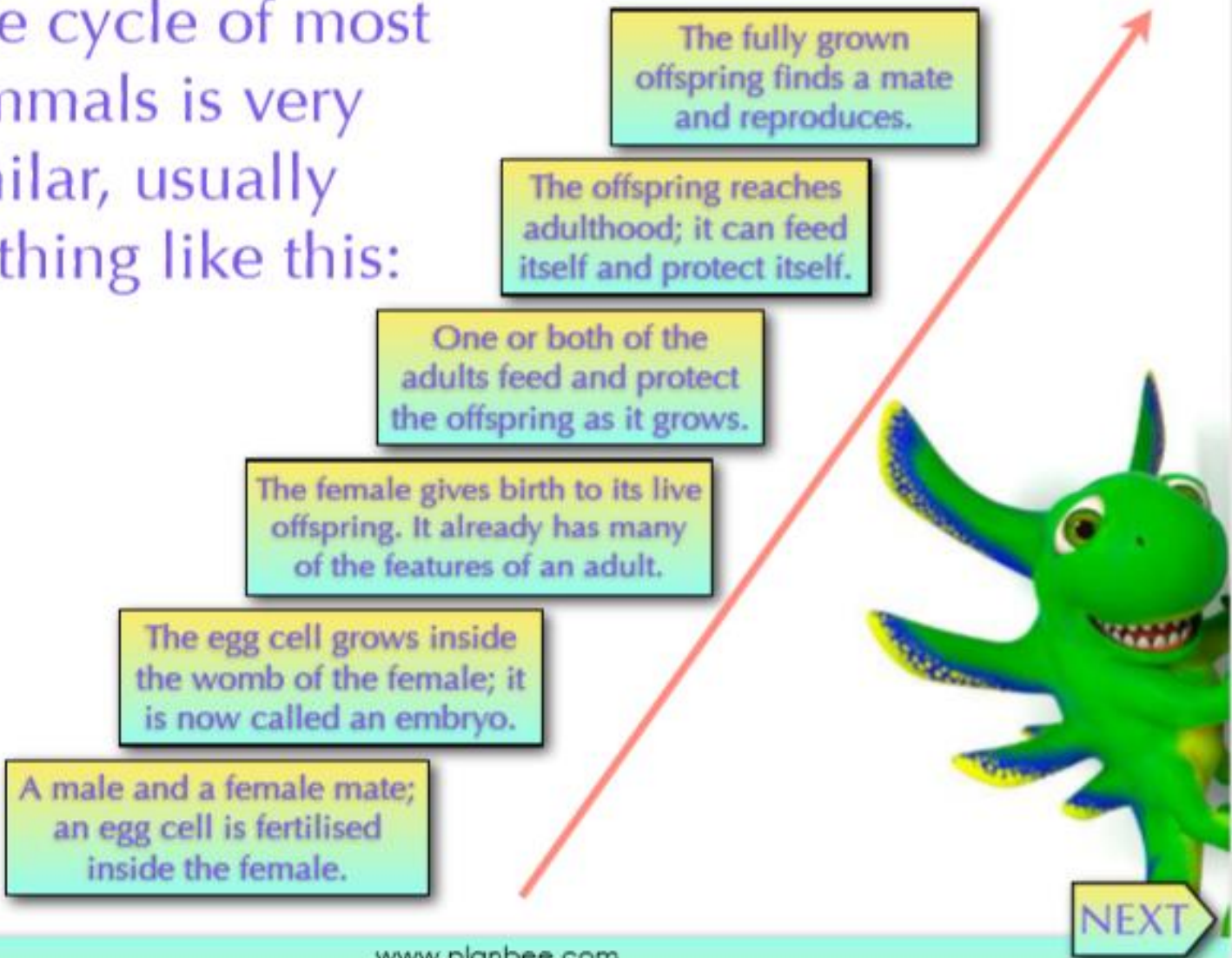


Science

# Science

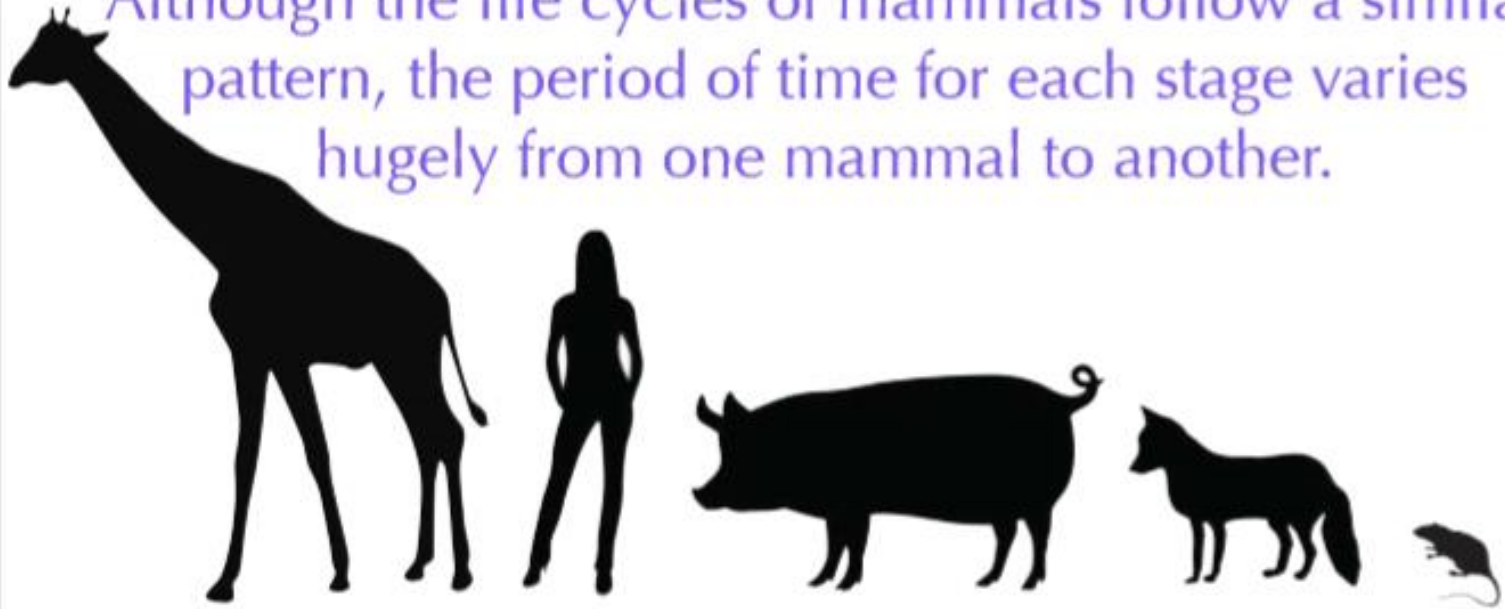
- Research the animals on the following slide then use your research to fill in the worksheet on the slide that follows.

The life cycle of most mammals is very similar, usually something like this:





Although the life cycles of mammals follow a similar pattern, the period of time for each stage varies hugely from one mammal to another.



**Giraffe**  
420-450  
days

**Human**  
259-280  
days

**Pig**  
112-115  
days

**Fox**  
52  
days

**Rat**  
21-23  
days

Here are the gestation periods (amount of time spent pregnant) of some different mammals. What do you notice?

BACK

NEXT



### Atlantic puffin

- Lives along coastlines around the Atlantic ocean
- Its webbed feet help it swim on the surface of the water, and its downy feathers trap air, keeping it warm
- Puffins eat fish and occasionally strangles; they dive under the surface of the sea, where they can stay submerged for over a minute while they hunt for fish
- Young puffins take 2-6 years to reach breeding age. During this time they remain at sea
- Once old enough, puffins return to the cliffing breeding grounds where they were raised to find a mate
- Puffins mate for life, returning to the same burrow each year to mate with the same partner
- The single egg hatches after around 40 days; the parents fish for food for their offspring until it is old enough to leave the nest (after around 42-60 days)



### Red lionfish

- Lives in coral reefs in the Indian ocean and parts of the Pacific
- Has very few predators due to the venomous spines covering its body
- It hunts for food by constricting small fish and swallowing them whole
- Lionfish reach breeding age very quickly and live up to 10 years
- The females releases her eggs into the water, where they are fertilised by the male
- The fertilised eggs float to the surface of the water, where they hatch after a few days
- The new-born lionfish larvae quickly spread out once hatched; they feed on other tiny fish and organisms
- The adult lionfish lives a solitary life, hunting and living alone; they only interact with others during breeding



### European otter

- Lives in freshwater streams, rivers, lakes and ponds
- Found across Britain and Europe
- Webbed feet and strong tail for swimming
- Fur traps air around body to keep it warm
- Mainly eats fish, but will eat birds, frogs and insects in winter when it is harder to find fish
- Otters will breed at any time of year; female otters are ready to breed when they are around 18 months old
- The female gives birth to 1-4 live young in her riverbank burrow after roughly 3 months gestation
- The young pups are dependent on their mother to feed and protect them
- The pups stay near the burrow, being cared for by their mother until they are around 18 months old



### Dragonfly

- Found in wetlands and near lakes and ponds around the world
- Their four wings make them amazing fliers; they can hover and move in any direction
- They hunt for midges, mosquitoes, ants, wasps, flies and other small insects
- Male and female dragonflies mate in the air or on leaves and branches; the female then lays her eggs on floating leaves or plants
- The dragonfly larvae hatch into the water, where they will hunt the larvae of other insects swimming in the water; they will even attack much larger tadpoles and fish
- Depending on the species, dragonfly larvae will live in the water for up to five years. When ready, they climb out of the water, shed their skin, unfold their wings and fly!
- Adult dragonflies only live for around 3-6 months and will breed several times during this period

## Task 1 – Life cycles

Make a table like this to record your research.

Read the Animal Fact Cards. Choose one animal to write a book about. Your book should clearly explain the life cycle of your chosen animal to younger children. Use the subheadings and Word Bank to help you plan your work.

<p>By: _____</p> <p>_____</p>		<p>_____</p>	
<p>Title: _____</p>		<p>_____</p>	
<p><b>Where does it live?</b></p> <p>_____</p> <p>_____</p> <p>_____</p>	<p><b>How does it breed?</b></p> <p>_____</p> <p>_____</p> <p>_____</p>	<p><b>What does it eat?</b></p> <p>_____</p> <p>_____</p> <p>_____</p>	<p><b>How do the offspring survive and grow?</b></p> <p>_____</p> <p>_____</p> <p>_____</p>