

Science - Year 5

Animals including Humans – Block 5AH

Life Explorers

Session 1

Resource Pack

Who? What? When?
Human lifecycle challenge

Who?



What?

I am currently busy learning to read and ride my bike. My body is growing fast!

I am currently busy with work and my family. My hair is starting to go grey!

I am enjoying playing with my granddaughter and having time to read in my garden.

I am currently busy learning to crawl. My body is growing fast!

My body is currently busy changing shape and getting ready to reproduce.

I am currently busy finding my own home and beginning a career.

I am currently busy growing some eyes and ears.

When?

Before birth

0-2 years

3-11 years

12-18 years

18-25 years

25-65 years

65+ years

Who? What? When?
Human lifecycle challenge: instructions

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1. *Match the picture (who?) with what might be happening (what?) and the age (when?)*
2. *Now see if you can think of other things that might happen during that stage of life*
3. *Write down any questions you would like answering, or to explore about humans and their development and lifecycle*

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Animal reproductive ages and offspring

Animal	Reproductive age onset	Size of litter	Possible number of offspring over life
Rat	2-4 months	10-12 pups	Max 15 litters/year
Cat	6-9 months	4-6 kittens	Max 3 litters/year
Fox	10 months	4-5 kits	1 litter/year
Horse	2-3 years	1 foal	c. 1 foal/year
Elephant	14 years	1 calf	1 calf every 2-3 years

Gestation game

Data for teacher (note data may vary depending on the source)

Animal	Gestation (in days)	Average life span (in years)
Human	267	75
African elephant	640	60
Tiger	100	25
Giraffe	450	25
Chimpanzee	237	45
Wolf	69	16
Grey squirrel	44	6
Pig	113	13
Hamster	16	3
Dog	63	12
Cat	62	14
Mouse	25	2
Horse	337	20
Humpback whale	350	50
Fox	52	10
Dolphin	276	20

Gestation game

These are all in a muddle! Can you match the animal to its gestation period and average life span? Cut out the gestation period and life span rectangles and match them to the correct animal.

Animal – green

Gestation period – orange

Life span - blue

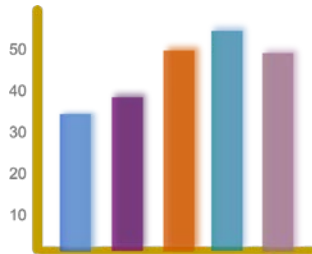
Human	640	60
Tiger	337	75
Cat	25	2
Mouse	237	20
African Elephant	100	25
Chimpanzee	267	14
Horse	62	45

Table of animals
(add in three more of your own)

Animal	Gestation (in days)	Average life span (in years)	Size of animal	Number of offspring per pregnancy
Human				
African elephant				
Tiger				
Giraffe				
Chimpanzee				
Wolf				
Grey squirrel				
Pig				
Hamster				
Dog				
Cat				
Mouse				
Horse				
Humpback whale				
Fox				
Dolphin				

Graphing options

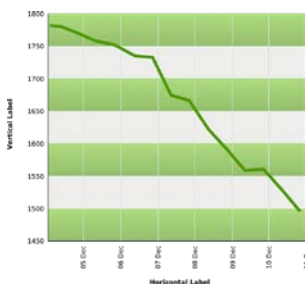
Bar graphs: show numbers that are independent of each other, (e.g. the weight of various animals)



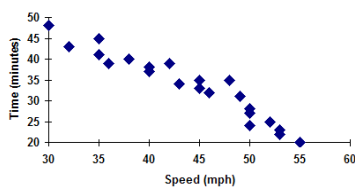
Pie charts: show you how a whole is divided up, (e.g. the proportion of types of animal that are live in a given habitat)



Line graphs: show you how something changes over time, (e.g. change in temperature over 24hours)



Scatter graph: compares two sets of data that are likely to have an impact on one another, (e.g. speed against time)



Other considerations

- Note that animals with a breeding season usually give birth at a specific time of year when food is available – gestations may therefore vary
- In humans, male foetuses usually gestate a few days longer than females
- In humans multiple pregnancies gestate for a shorter period
- In dogs it seems likely that a smaller litter size results in a longer gestation time