

Willerby Carr Lane Primary School - Science

Topic: Animals including Humans

Year: 5

Strand: Biology

What should I already know?

- How to be healthy by eating well and staying clean.
- Know the names for the main parts of the body.
- Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals.
- Identify and name a variety of common animals that are carnivores, herbivores and omnivores.
- Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets)
- Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.
- Animals, including humans, have offspring which grow into adults.
- Know the basic needs of animals, including humans, for survival (water, food and air).
- Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.
- Animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food, they get nutrition from what they eat.
- Humans and some other animals have skeletons and muscles for support, protection and movement.
- Describe the simple functions of the basic parts of the digestive system in
- Identify the different types of teeth in humans and their simple fun
- Construct and interpret a variety of food chains, identifying producers, predators

What will I know by the end of the unit?

- | | |
|---|--|
| What changes happen as humans develop to old age? | <ul style="list-style-type: none"> • Compare baby, toddler, child, adolescent, adult and adult in old age. • Know how their own bodies will change as they go through puberty (link to PSCH) • Draw a timeline to indicate stages in the growth and development of humans. They should learn about the changes experienced in puberty • <u>Baby (under 1 year)</u> • completely helpless and totally dependent on parent • Muscles weak and uncoordinated • Changes very quickly • <u>Toddler (1 – 3 years old)</u> • Starts walking and talking • Grows rapidly • Begins to mix with other children • <u>Child (4-10 years)</u> • Starts school and learns to read • Rapidly learns lots of new skills eg football, ride a bike |
|---|--|

- Enjoys mixing with others
- Adolescent (11-20 years)
- Starts developing into and adult in the ay they think and feel
- The body takes on features of an adult eg female grows breasts; a male's voice deepens and hair grows on face
- The parts of the body that allow a young person to reproduce now develop
- Adult (20-60)
- Body is strongest
- Brain is at its most alert
- Able to reproduce
- Old age (60+)
- Muscles grow weaker
- Skin stretches and becomes wrinkled
- Hair turns white or grey, some men go bald

How does the gestation period of humans compare with other animals?

- work scientifically by researching the gestation periods of other animals and comparing them with humans;
- Gestation period for a human is 9 months (275 days)
- Dog – 63 days
- Cat – 63 days
- Rabbit – 31 days
- Elephant – 624 days

Vocabulary

adolescent	the process of developing from a child into an adult (teenager)
adult	a person who is fully grown or developed
child	a young human being below the age of puberty
foetus	an unborn offspring of a mammal that devlops from an embryo
gestation	the process or period of developing inside the womb between conception and birth
life expectancy	the average period that you may expect to live
mammal	a warm-blooded vertebrate animal, distinguishable by the posession of hair or fur, females secreting milk for young and typically giving birth to live young
offspring	a person's child or children/ an animal's young
puberty	the period during which adolescents reach sexual maturity and become capable of reproduction
reproduction	the production of offspring

Investigate!

- How will the body change during puberty?
- Research gestation periods of different animals and record in bar chart.

Common misconceptions

Some children may think:

- a baby grows in a mother's tummy
- a baby is "made".

Name of animal	Gestation period (days)
Cat	63
Dog	63
Elephant	624
Hippopotamus	240
Horse	336
Human	275
Pig	115
Rabbit	31
Rat	21
Whale	446

