Coley Primary School – Knowledge Organiser

SUBJECT FOCUS: Biology strand	Science: Animal, including humans	YEAR 5	TERM 6

WHAT? – Key Knowledge

- Describe the changes as humans develop to old age.
- Draw a timeline to indicate stages in the growth and development of humans.
- Learn about the changes experienced in puberty.
- Researching the gestation periods of other animals and compare them with humans; by finding out and recording the length and mass of a baby as it grows.
- Use scientific language: say, read and spell scientific vocabulary.

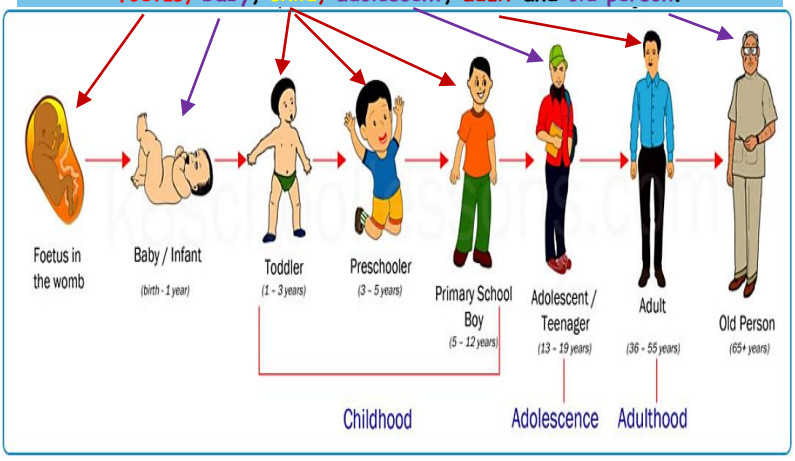
The Seven Characteristics of Living Things:

MRS GREN	
M	Movement
R	Respiration
S	Sensitivity
G	Growth
R	Reproduction
E	Excretion
N	Nutrition

All animals and living things have these seven characteristics: they **move, feed, grow, use their senses, reproduce, respire (breathe)** and **excrete** (go to the toilet).

Human Life Cycle

Human Life Cycle mainly consists of **6 stages**. They are…
foetus, baby, child, adolescent, adult and old person.



Stages of Human Life	
1. **Foetus**	After eight weeks, the group of cells in the mother's womb develops more human-like features, becoming a foetus. The foetus grows inside the womb for nine months. It receives its nutrition through the umbilical cord
2. **Baby** (birth to 1 year)	A baby is born after nine months and is completely reliant on his/her parents to meet his/her needs. Babies often cry to communicate their needs
3. **Childhood** (1 – 12 years)	Toddler (1 – 3yrs) Pre-schooler (3 – 5yrs) and Primary school children (5 – 12yrs) At this stage, a human learns to walk and talk, read, write and form friendships with other children. A child is still heavily reliant on his/her parents.
4. **Adolescence** (13 – 19 years)	As a child grows, he/she becomes an adolescent (teenager). The teenager goes through a period of physical and emotional change (puberty) as he/she develops into an adult. Teenagers tend to seek greater independence from their parents. Behaviours and attitudes can also change.
5. **Adulthood** (20 – 65 Years)	An adults body is fully grown and developed. Adults can reproduce and create their own families
6. **Old Age** (65 +)	This is the last stage of a human's life. The average life expectancy of an adult can vary from 70 to 85 years old, however some adults live beyond 85 years old

WHAT? – Key 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 or unhatched offspring of a mammal.
gestation	The process or period of developing inside the womb between conception and birth.
reproduction	Creating offspring by a sexual or asexual process
life expectation	The average period that you may expect to live.
life cycle, uterus, prenatal, infancy, childhood, human timeline, puberty, old age,	

Diagrams and symbols

Gestation Period of Animals

The length of time it takes for an animal to grow in its mother's womb varies. This is known as a **gestation period**. For some animals, the gestation period is much longer than for others.

Animal	Gestation (in days)	Average life span (in years)
Human	267	75
Tiger	100	60
Giraffe	450	25
Chimpanzee	237	45
Hamster	16	3
Cat	62	14

Working Scientifically Challenge:

Let's think like scientists…

- Can they create a timeline to indicate stages of growth in humans?
- Can they explain what puberty is?

I wonder… Can I …

- Can they create a timeline to indicate stages of growth in certain animals, such as frogs and butterflies?

Possible experiences: *Curious minds…*

- **Photo Album** – compare pictures of themselves as babies and at the present time, identifying similarities.
- **How Did I Begin?**, by Mick Manning and Brita Granström ***(Shortlisted for the Junior Science Book Award)***