

Week commencing 18th May

Students need to be able to:

- Understand different mammals have different gestation periods, usually dependent on their size.
- The stages of the human life cycle
- That the prenatal stage of the human life cycle involves structures to support development (umbilical cord and fluid filled sac)

Tasks overview:

Task 1: Sequence the animals in order of gestation period (instructions in powerpoint)

Task 2: Estimate the gestation period of each animal (instructions in powerpoint)

Task 3: Videos and note taking (instructions in powerpoint)

Task 4: Make a time line for the human life cycle (guidance within powerpoint and optional resources available “Activity sheet stages of human growth and development”. This resource has three different difficulty levels – 1 star is easiest to access, 3 star is the challenge level)

Task 5: Add notes about the prenatal stage (instructions within the powerpoint).

Lesson 1

YPGERCNAN

Unscramble to find another word for 'GESTATION'

Task 1 - Can you put these mammals in order for the length of their gestation period (how long they are pregnant for)?

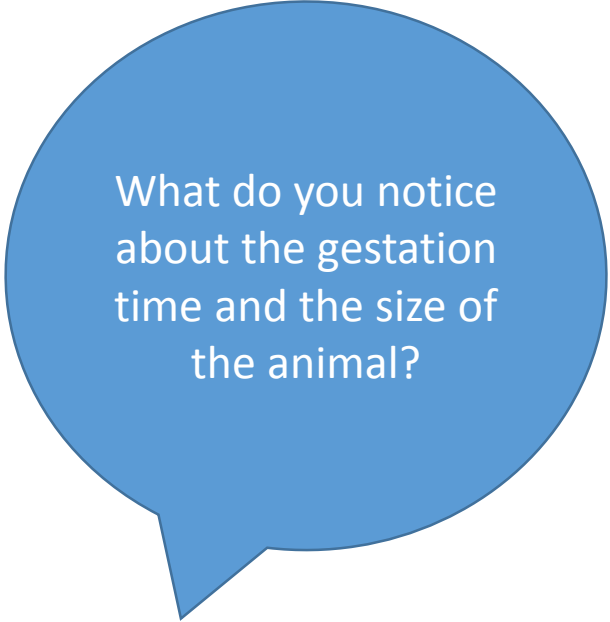
Task 2 – Can you estimate (guess) the gestation period for these mammals in number of days? Just roughly?

RANDOM ORDER
Mouse
Elephant
Cat
Lion
Rhino
Camel
Squirrel
Human

MAMMALS LISTED IN ORDER - LEAST NUMBER OF DAYS FOR GESTATION TO THE MOST	ESTIMATED NUMBER OF DAYS FOR GESTATION
Human	266

ANSWERS

MAMMALS LISTED IN ORDER - LEAST NUMBER OF DAYS FOR GESTATION TO THE MOST	NUMBER OF DAYS FOR GESTATION
Mouse	21
Squirrel	30
Cat	64
Lion	108
Human	266
Camel	370
Rhinoceros	450
Elephant	645



What do you notice about the gestation time and the size of the animal?

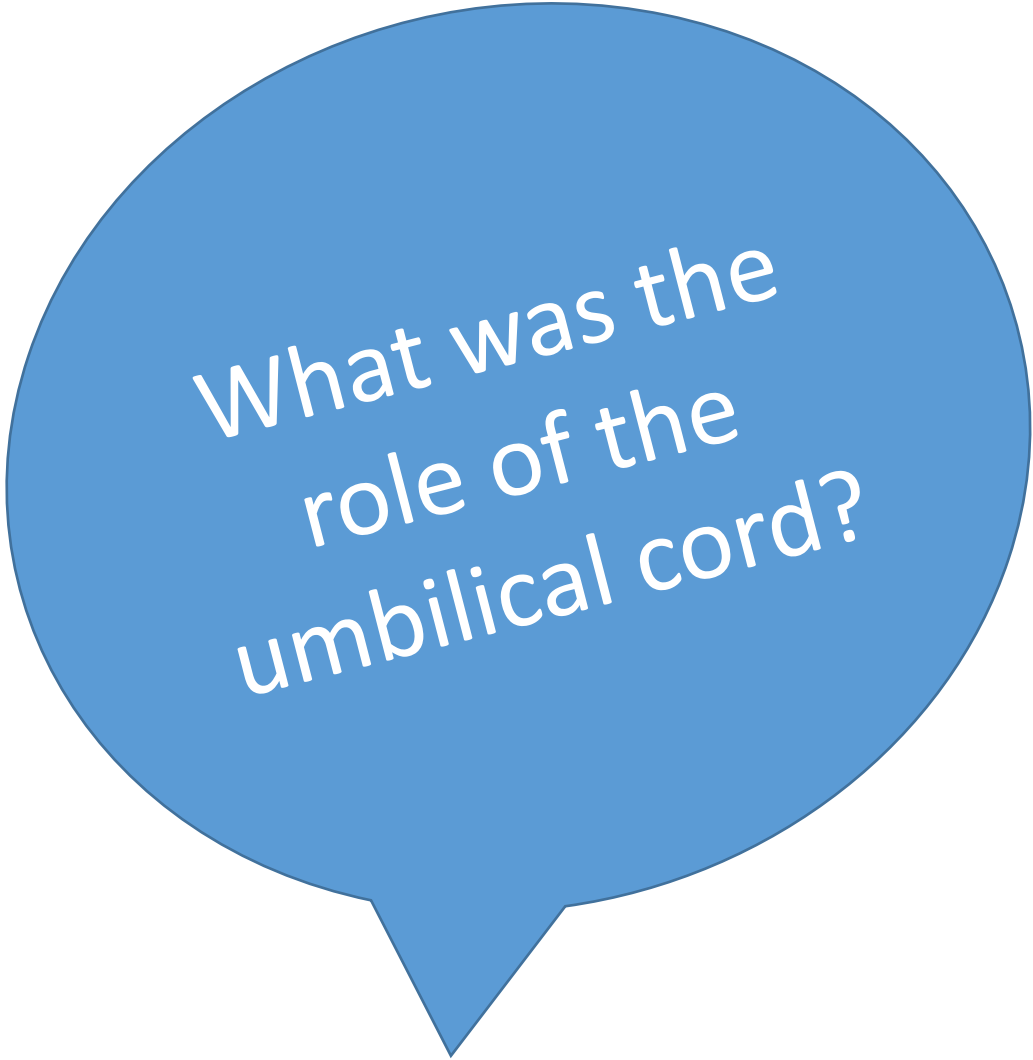
Watch the video in the link below

Things to look for:

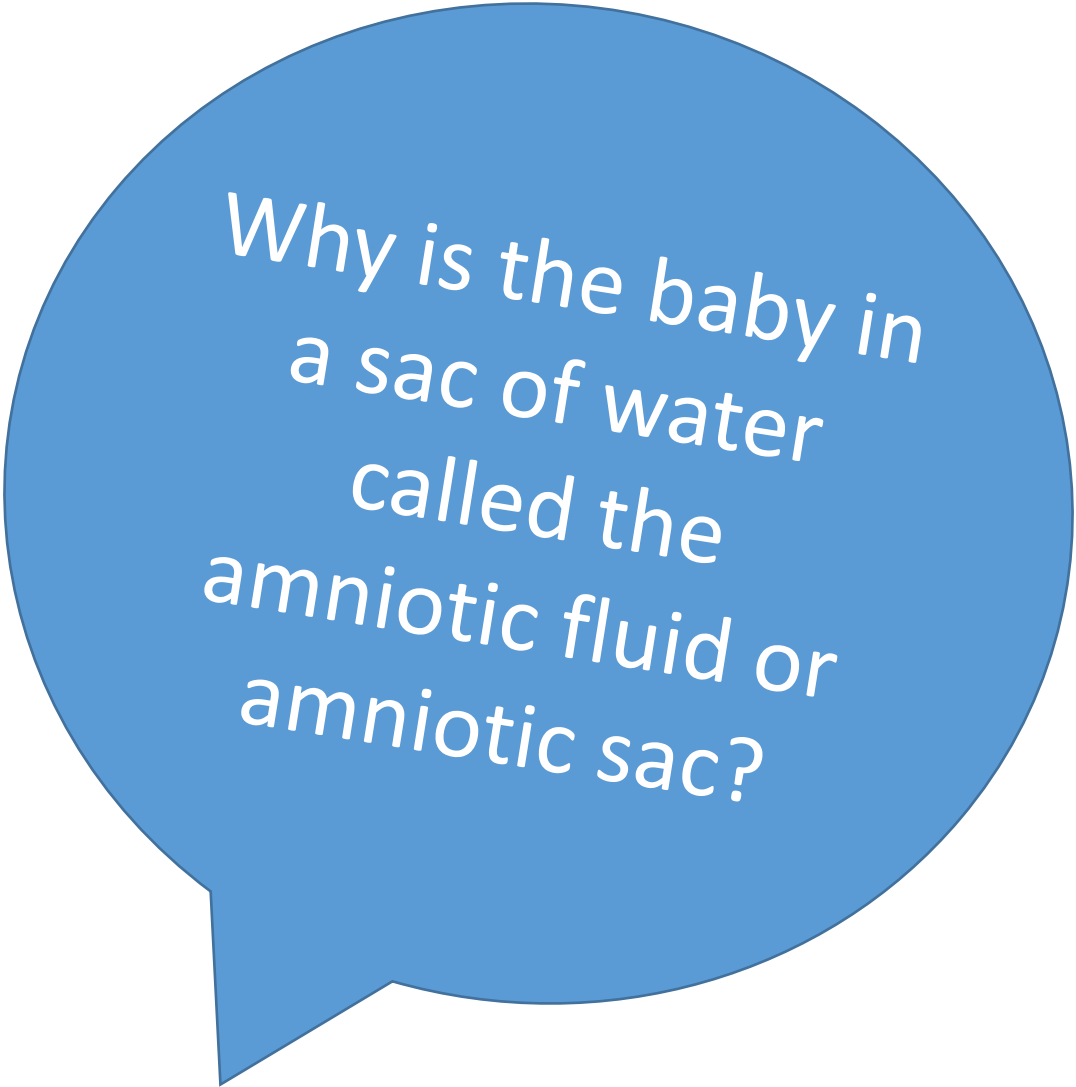
- Heart beating
- Spine
- Placenta
- Umbilical cord
- Water/amniotic sac



- https://www.youtube.com/watch?v=4l9GE_eaMSs



What was the
role of the
umbilical cord?



Why is the baby in
a sac of water
called the
amniotic fluid or
amniotic sac?

The umbilical cord carries oxygen and nutrients from the mother to the developing baby. It also takes any waste the baby makes (like carbon dioxide) to the mother so she can get rid of it.

The amniotic fluid is for protection. Imagine the baby is inside a water balloon. It will absorb bumps and knocks.

WHAT HAPPENS NEXT?

TASK 3: PHYSICAL, INTELLECTUAL, EMOTIONAL, SOCIAL DEVELOPMENT (PIES!)

[VIDEO 1](#)

Watch the 4 videos

[VIDEO 2](#)

List anywhere you see a child developing any of these four areas for development (PIES)

[VIDEO 3](#)

[VIDEO 4](#)

The next slide will help you to understand what you are looking for in each area

EXTENSION: Find more videos or observe other people (people develop at all ages in their life) and analyse their development in terms of PIES

MEGA EXTENSION: Make a poster that describes the development of a child (or grown up) at a certain age in terms of PIES. You could cut out images from a magazine to help

PIES development



Physical growth and development

Mobility and movement

Muscle tone/strength

Gross skill development = large (arms, legs) – eg run, jump, climb

Fine skill development = small (hands & finger) – sew, draw, write



Emotional development

Feelings

Identity

Confidence

Self esteem and self image

Bonding and attachment

Independence

Security

Decisions and control



Intellectual development

Thinking

Memory

Learning

Language and communication

Creativity

Problem solving and logic

Expression



Social development

Relationships

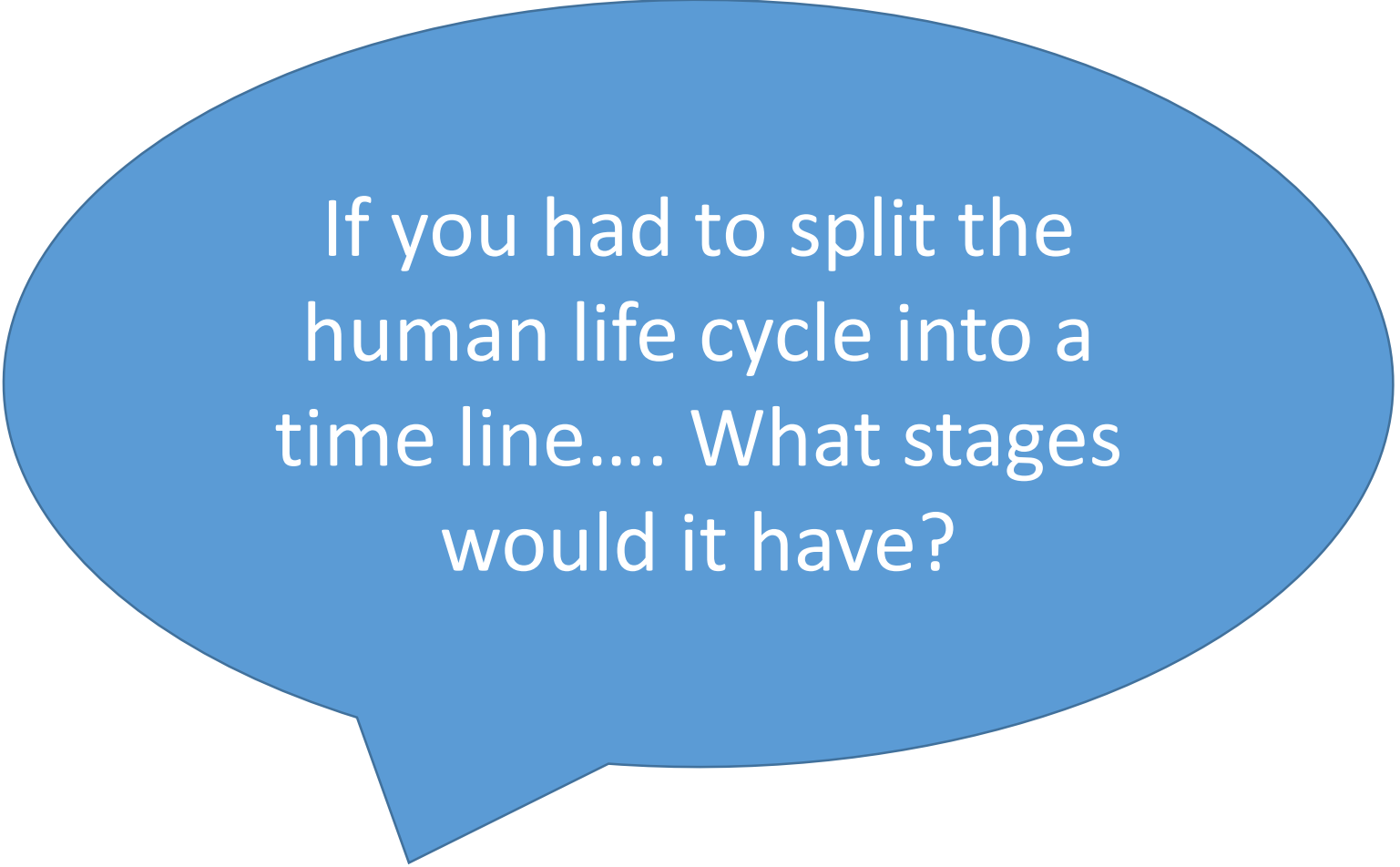
Friends

Interaction

Communication



Lesson 2 The human life cycle



If you had to split the human life cycle into a time line.... What stages would it have?

Task 4: Sequence the stages....

Adulthood

Adolescence

Infant

Foetus/prenatal

Childhood

Old age

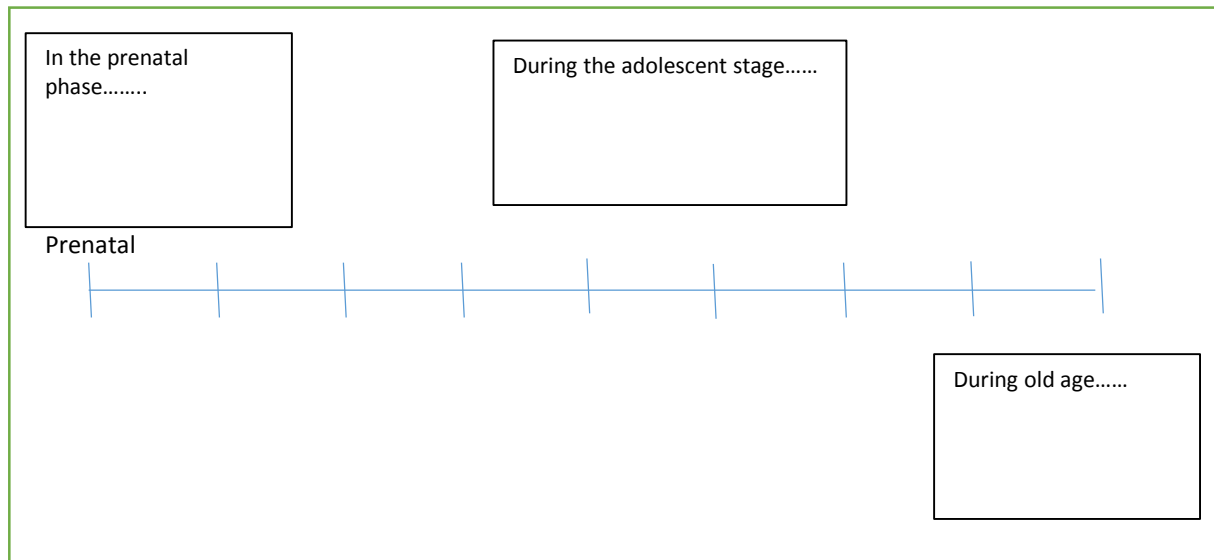
ANSWERS

1. Foetus/prenatal (this is before birth)
2. Infant (this is a baby/toddler)
3. Childhood
4. Adolescence (this is in the teenage years when puberty happens)
5. Adulthood
6. Old age

Task 5:

Make a timeline of the human life cycle. There are resources available (Activity Sheet Stages of Human Growth and Development) you could use or you could make your own timeline. Maybe stick two pieces of paper together so you can make it large!

You will need to leave some space around your time line for notes!



The number of stages is up to you – you could use the 6 we went through earlier in the lesson, or have some additional stages outlined on the resources mentioned above.

You will add notes as you learn more about the different stages... so don't panic... not much yet! In time we will add notes about:

- the prenatal phase
- the adolescent phase
- the old age phase

Task 6: Add notes about the prenatal stage!

- You should say how long the prenatal stage lasts for.
- You should say why there is an umbilical cord.
- You should say why the baby is in a sac of water (amniotic fluid).
- You could research the specific times in the development certain things happen.... For example:
 - At which week does the heart start beating?
 - At how many weeks are all the organs developed?
 - At how many weeks does the baby get fingernails or eye lashes?