Year 5 Summer 1 – Animals including Humans

Things to include each half term:
1 x active learning
1 x outdoor science lesson
3 x experiments/investigations
1 x child-led investigation
3 x examples of working scientifically

Science display:
Key words and vocab
Diagrams of changes in humans
Examples of chn working (pictures)

Science Adventure
Medium Term Planning

Lesson 1 – Human life cycle and gestation

Introduce human life cycle – active learn activity matching up stages of life to pictures.
Introduce what a foetus is and where it grows? How long it takes? What is a gestation period?
Do all animals have the same gestation period?
How do babies get nutrients from their mothers? Introduce the placenta.
Investigation – chn to complete research for a range of animals. (gestation, life span, average number of offspring per pregnancy, size of animal) Record information in a table. Then discuss what types of graph would be best to present information? Can you see any casual relationships between the information? Chn to write a hypothesis. Working scientifically.

Lesson 2 – Foetal development

Active learn– chn to match up fruit and veg to statements about foetal development.
What does viable mean (24 weeks)? What does premature mean?
Explain the 3 trimesters.
Discuss with chn what a healthy pregnancy includes – not smoking, not drinking alcohol etc…
See websites below for resources.
https://vimeo.com/61792245 - *Pregnancy, Vimeo;* http://www.nhs.uk/tools/pages/pregnancy.aspx - *Slides on foetus development, NHS;* http://www.nhs.uk/chq/Pages/917.aspx?CategoryID=54&SubCategoryID=130 - *Why should I avoid some foods during pregnancy? NHS;* http://www.dkfindout.com/uk/human-body/life-cycle/growing-in-womb/Foetaldevelopment - *Growing in the womb, D&K;* https://uk.pinterest.com/pin/362047257523749767/ - *Sample diagram, Pinterest;* http://www.bbc.co.uk/education/clips/z3pwv4j - *How the human body grows, BBC.*
Working scientifically – chn to draw a foetal development diagram. Provide chn with examples of each month of pregnancy and they then create their own month by month diagrams. Chn to present work as a flow chart. Chn to add text to accompany images.

Lesson 3 – Growth and change – Baby and child

What is a milestone? Explain that they are not always met at the same moment.
Look at example of growth chart and explain what centile means. How do scientists know this information? What affects growth?

Science Adventure
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Child led investigation – The older you are, the taller you are? Is this true? Children to investigate using each other's height and ages.

Lesson 4 – Adolescence and Puberty
Active learn – Venn diagram of changes for male, females or both.
Discuss emotional and physical changes.
Discuss how this can happen at different times for different children.
Discuss menstruation.
Children to create their own Venn diagrams in books and make a glossary to accompany it. Working scientifically.

Lesson 5 – Adults and old age
Have a selection of celebrities. Ask chn to arrange them in age order? How do they know? Active learn
Humans stop growing about 20 years old. What features did they use to help them sort out the pictures, hair colours, skin etc…
What age do people usually have chn? Why? Discuss fertility in women and menopause.
What happens as we age? How do scientists know this is because we have aged?
Children to create a mind map of things to expect in old age.

Lesson 6 – Human Timeline
Active learn/ investigation – chn to work in groups to create a human timeline showing the growth of humans. Children to then present in books in any way they like. Chn to complete end of unit assessment.