

# Newquay Primary Academy – Science Summer Term 1 Sequence



## YEAR 3

**Prior knowledge...**  
Animals including humans  
 Basic stages of an animal life cycle.  
 The importance of exercise for humans. The basic needs of animals including humans for survival.

## YEAR 4

**Prior knowledge...**  
Animals including humans  
 Basic stages of an animal life cycle. The importance of exercise for humans. The basic needs of animals including humans for survival.

## YEAR 5

**Prior knowledge...**  
Animals including humans  
 Describe the simple functions of the basic parts of the digestive system in humans.  
 Identify the different types of teeth in humans and their simple functions.

## YEAR 6

N/A  
 Prior knowledge...

## INTENT

Animals including humans  
 Pupils will develop knowledge, skills and understanding in nutrition, muscles, bones and joints and conduct their own research to answer questions.

Animals including humans  
 Pupils will develop knowledge, skills and understanding in nutrition, muscles, bones and joints and conduct their own research to answer questions.

Animals including humans  
 Pupils will be able to describe the different stages of a human life cycle.

## VOCABULARY / STICKY KNOWLEDGE

Animals including humans - Nutrients, nutrition, carbohydrates, protein, fats, vitamins, water, fibre, skeleton, bones, joints, endoskeleton, exoskeleton, vertebrates, invertebrates, muscles, contract, relax.  
 Different animals are adapted to eat different foods.  
 Many animals have skeletons to support their bodies and protect vital organs. Muscles are connected to bones and move them when they contract. Movable joints connect bones.

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Animals including humans - foetus, embryo, womb, gestation, baby, toddler, teenager, elderly, growth, development, puberty, hormone, physical, emotional.  
 Different animals mature at different rates and live to different ages.  
 Puberty is something we all go through, a process which prepares our bodies for being adults, and reproduction.  
 Hormones control these changes; which can be physical and/or



connect bones.

emotional.



**SEQUENCE OF LESSONS**

Animals including humans  
**Explorify** -  
<https://explorify.uk/en/activities/the-big-question/what-food-helps-to-keep-us-healthy>

1. To identify that animals and humans need the right types and amounts of nutrition.
2. To identify that animals and humans cannot make their own food; they get nutrition from what they eat.
3. To identify that some animals and humans have skeletons for support, protection and movement.

States of matter

1. To explain the particle structure and properties of a solid, liquid and gas.
2. To practically investigate gas.
3. To explain how materials change state when they are heated or cooled.
4. To practically explain the process of evaporation.
5. To explain the process of the water cycle.

Animals including humans  
 What if the average human lifespan was 200 years?

1. To create a timeline of a human life.
2. To study the development from foetus to birth.
3. To work scientifically to investigate gestational periods.
4. To learn about the changes experienced in puberty.



**OUTCOME / COMPOSITE**

Animals including humans  
 Pupils will work with a local Vets to investigate skeletons.

Animals including humans  
 Pupils will work with a local Vets to investigate skeletons.

Animals including humans  
 Pupils will produce their own human timeline

