



Leamington Primary Science Knowledge Organiser

Year 3 – Animals including Humans

Strand – Biology



What I should already know	What I will learn	Important words to help me. (vocabulary)	Ideas for Scientific Enquiry																				
<p>- Offspring is the young from an animal or human.</p> <p>- Food comes from different food groups such as fats, protein, carbohydrates, dairy and fruit and vegetables.</p> <p>- Exercise effects our body in different ways such as running supports our fitness levels and gymnastics supports our flexibility.</p>	<p>Do all animals have a skeleton?</p> <p>- Vertebrates are a group of animals which have a backbone or spinal column, including mammals, birds, reptiles, amphibians, and fishes.</p> <p>- Invertebrates do not have a back bone examples of invertebrates include insects; crabs and lobsters.</p> <p>- I will learn that all skeletons are different.</p> <p>- There are 206 bones in the human body.</p> <p>- I will learn why humans and some other animals have skeletons and muscles.</p> <p>Where do animals get the right amount of nutrition?</p> <p>- I will identify that 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.</p> <p>- Animals are in a food chain and need to hunt for their food to survive.</p> <p>How do I keep healthy?</p> <p>- I will continue to understand about the importance of exercise and how exercise makes our body feel different.</p> <p>- I will explore how heart rate changes the more our bodies exercise.</p> <p>- I will explore the importance of a warm up and cool down within an exercise routine.</p> <p>- I will explore eating healthily and compare healthy and unhealthy foods.</p> <p>- I will be able to plan a well-balanced diet and understand that food comes from different food groups such as fats, protein, carbohydrates, dairy and fruit and vegetables.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Vertebrates</td> <td>A living thing that has a back bone.</td> </tr> <tr> <td>Invertebrates</td> <td>A living thing that does not have a back bone.</td> </tr> <tr> <td>Skeleton</td> <td>A framework of bone and cartilage which supports the body of an animal or plant.</td> </tr> <tr> <td>Muscle</td> <td>Tissue in a human or animal body that has the ability to contract, producing movement.</td> </tr> <tr> <td>Nutrition</td> <td>The process of providing or obtaining the food necessary for health and growth.</td> </tr> <tr> <td>Exercise</td> <td>Activity requiring physical effort, carried out to sustain or improve health and fitness.</td> </tr> <tr> <td>Heart rate</td> <td>The speed at which the heart beats.</td> </tr> <tr> <td>Healthy</td> <td>In good health being in good mental and physical condition.</td> </tr> <tr> <td>Ligament</td> <td>Attaches the muscle to the bone.</td> </tr> <tr> <td>Balanced diet</td> <td>A diet consisting of a variety of different types of food and providing good amounts of the nutrients necessary for good health.</td> </tr> </table> <div style="text-align: center; margin-top: 10px;"> </div>	Vertebrates	A living thing that has a back bone.	Invertebrates	A living thing that does not have a back bone.	Skeleton	A framework of bone and cartilage which supports the body of an animal or plant.	Muscle	Tissue in a human or animal body that has the ability to contract, producing movement.	Nutrition	The process of providing or obtaining the food necessary for health and growth.	Exercise	Activity requiring physical effort, carried out to sustain or improve health and fitness.	Heart rate	The speed at which the heart beats.	Healthy	In good health being in good mental and physical condition.	Ligament	Attaches the muscle to the bone.	Balanced diet	A diet consisting of a variety of different types of food and providing good amounts of the nutrients necessary for good health.	<p><u>Classifying and Grouping</u></p> <p>- Compare skeletons and group them into vertebrates and invertebrates.</p> <p>- Sort different types of foods based on if they are healthy or unhealthy.</p> <p><u>Secondary Sources</u></p> <p>- Explore the bones in the human body and use secondary sources to research names of particular bones.</p> <p>- Research different athletes such as Usain Bolt and Mo Farah and compare different training styles and diets.</p> <p><u>Fair / Comparative Testing</u></p> <p>- Investigate and measure heart rate during various types of exercise.</p> <p><u>Pattern Seeking</u></p> <p>- Look for patterns and trends in people who eat well and exercise and those who don't.</p>
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Interesting Facts																							
<p>- Babies are born with 300 bones.</p> <p>- Muscles are divided into three types: smooth, cardiac, and skeletal.</p> <p>- Your body contains more than 600 muscles.</p>																							

