

Subject	Year	Term
Science	7	2
Topic		
7B1 Ecosystems and Life Processes		
Content (Intent)		
<b>Prior Learning: KS1 and KS2 National Curriculum</b>		
<p>Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals</li> <li>Identify and name a variety of common animals that are carnivores, herbivores and omnivores</li> <li>Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other</li> <li>Identify and name a variety of plants and animals in their habitats, including microhabitats</li> <li>Describe the importance of exercise, eating the right amounts of different types of food, and hygiene.</li> <li>Recognise that environments can change and that this can sometimes pose dangers to living things.</li> <li>Describe the simple functions of the basic parts of the digestive system in humans</li> <li>Identify the different types of teeth in humans and their simple functions</li> <li>Construct and interpret a variety of food chains, identifying producers, predators and prey.</li> <li>Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function</li> <li>Describe the ways in which nutrients and water are transported within animals, including humans.</li> </ul>		
<b>Future Learning: GCSE: B3 Infection and Response, B2a Organisation (Transport), B2b Organisation (Disease and Enzymes), B7 Ecology</b>		
How will knowledge and skills be taught? (Implementation)	How will your understanding be assessed & recorded (Impact)	
<p><b>Demos:</b> Digestive system model.</p> <p><b>Practical work:</b> Making agar plates to demonstrate the effect of probiotics and antibiotics on bacteria growth</p> <p><b>Written:</b> Notes and completed worksheets in exercise books, research tasks using fact cards and internet</p>	<p>- 2 x <b>Standard Homework Tasks:</b> Level given. Written feedback. Response expected.</p> <p>-1 x <b>End of Topic Test:</b> Level given. Verbal feedback to class and individuals.</p>	
How can parents help at home?		
<p>Look at 7B2 topic resources on the VLE and use the CGP KS3 Study Guide provided.</p> <p>Use appropriate YouTube channels [eg Cognito, KhanAcademy] and documentaries [eg Dynasties BBC]</p> <p>Take an interest! Be curious and ask your child about their learning.</p>		
Helpful further reading/discussion		
<p><b>Reading</b></p> <p>BBC – Incredible human journey</p> <p>Grow, forage and make (Alys Fowler and Heidi Griffiths)</p> <p>Fourteen Wolves (Catherine Barr and Jenni Desmond)</p> <p>Diary of a young naturalist (Dara McAnulty)</p> <p>Where the wild things grow (David Hamilton)</p>	<p><b>Vocabulary Lists</b></p> <p>Ecosystem, bioaccumulation, food chain, pollinator, food web, pollination</p> <p>Energy, carbohydrate, trophic level, protein, producer, fibre, consumer, lipid, herbivore, vitamins, carnivore, minerals, omnivore, calorie, adaptation, obesity, respiration, starvation, heat, deficiency disease, mouth, stomach, oesophagus, intestines, pancreas, liver, enzymes, saliva, villi, microvilli, bile, bacteria, recreational drug, stimulant, depressant, photosynthesis, chloroplast</p>	<p><b>Careers Links</b></p> <p><b>Medicine (doctor/nurse)</b></p> <p><b>Agriculture</b></p> <p><b>Horticulture</b></p> <p><b>Scientific research</b></p> <p><b>Zoologist</b></p> <p><b>Veterinary medicine</b></p> <p><b>Dietician</b></p> <p><b>Nutritionist</b></p> <p><b>Pharmacologist</b></p>