Clapgate	<u>Year 3 - Animals,</u>	@ @ \$1 🚲	
Inspiring Young Minds (Biology)			
 National Curriculum Objectives: 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 Identify that humans and some other animals have skeletons and muscles for support, protection and movement 			Key Vocabulary: nutrients, nutrition, carbohydrates, protein, fat, vitamins, minerals, water, fibre, skeleton, bones, joints, muscles, contract, relax
Lesson 1: Nutrition Identify & Classify Enquiry Question – Do all animals have the same diet? Investigation Station: Are these foods healthy? Can you	Lesson 2: Nutrition Identify & Classify/Research Enquiry Question – Where do living things get their food? Investigation Station: range of different food packagaing	Lesson 3: Food Packaging Research Enquiry Question – What nutrients do different food provide?	 Prior learning: In Year 2 - the children learnt: Animals, including humans, have offspring that grow into adults. The basic needs of animals, including humans, for survival.
use the pictures to create a healthy meal? Children to draw a concept map about what they learned in Y2 – animals – add to at the end of topic. Show chn a range of foods and pictures of animals that eat them. Discuss which animals they think might eat which of the foods. Encourage them to look for clues in the pictures of the animals and foods. Recap herbivores, carnivores and omnivores with the chn and discuss their different diets. Chn to sort animals into their diets and think of different foods they may eat. Working Scientifically Skills: To compare and contrast the diets of different animals and decide ways of grouping them according to what they eat. To answer their own and others; questions based on observations they have made. Key Knowledge: Different animals are adapted to eat different foods.	Odd one out – which is healthy and which is not. Chn to discuss. Ask chn what would happen if we didn't eat. Explain that we need food to continue existing. Chn to sort foods into healthy foods and less healthy foods. Can they remember the different food groups from Y2. Introduce nutrients and discuss the importance of a balanced diet. Chn to research the different nutrients and use this to design their own healthy meal. Label with the different nutrients it provides. Visit the goats and discuss with the chn their diet. Is it the same/different. Where do the goats get their food? Working Scientifically Skills: To research different food groups and how they keep us healthy. To present information in different ways (diagram). Key Knowledge: Know that animals, including humans, cannot make their own food. They get their nutrition from	Nutrient match – what do the nutrients do in our boo Children to look at different food packaging and dis the different nutrients from the different foods. Discu- hidden sugars. Look at amount per 100g for comparisons. Children to complete table to show carbs, protein, fr 100g of different foods. Working Scientifically Skills: To answer questions on observations they have made and information the gathered from different sources. Key Knowledge: Different foods provide of nutrients. We need to have a healthy, balanced ensure our bodies get the correct nutrients.	 The importance of exercise for humans, eating the right amounts of different types of food, and hygiene. <u>Future Learning:</u> In Year 4 the children will learn: The basic parts of the digestive system. The different types of teeth and their functions. How to construct a food chain and identify producers, predators and prey. Working Scientifically Skills: Asking questions Making predictions
Lesson 4: The Human Skeleton Research Enquiry Question – Why do animals have skeletons? Investigation Station: skeleton, names of bones Have paper cut out and ask chn to label with body parts. Let it fall to the floor and ask if there is anything else a body needs. Take the children outside and have them run, skip, jump and ask if they know what part of their body allows them to do this. Discuss the need for bones – protection, movement and support. Observe the goats and focus on how they walk. Research the difference between human and goat skeletons. "child led investigation" Working Scientifically Skills: To ask relevant questions and use different types of scientific enquiry to answer the. To observe and compare movement in animals. Key Knowledge: Many animals have skeletons for support, protection and movement.	Wrat they eat. Lesson 5: The Human Skeleton Pattern Seeking Enquiry Question – Do older people have longer bones? Investigation Station: Why do we need bones and muscles? Rubber gloves, straws, string. Pose this question to the children and ask them how we can find out the answer. Children to visit different year groups and take measurement of elbow-wrist and knee-ankle. Children to record the measurements (link to length in maths). Discuss what we could do with the measurements – create table. Children to write their answer to the question. Working Scientifically Skills: To use observations to suggest how and why things are linked. Setting up simple practical enquiries, comparative and fair tests. Key Knowledge: The length of our bones changes as we get older. Older children have longer bones.	 Week 6: Muscles Enquiry Question – Why do animals have muscles? Investigation Station: Diet information, skeleton to It sheets to complete Children to recap the functions of a skeleton and le about the different joints in a skeleton. Chn to find ti on their body and investigate how they move in differ ways. Ask children if there is anything else that our bodies to move – muscles. Children investigate their bicep triceps – feel them change shape as they contract a how they tire when they have worked. Children to make a hand model using straws for bo and string for muscles to see how bones and muscl work together. Large scale model. Working Scientifically Skills: To answer question scientific language. To consider their prior knowledg answering questions. Key Knowledge: Muscles are connected to bon move them when they contract. We need muscles us move. 	 Setting up tests Observing and measuring Recording data Interpreting and communicating results Evaluating Things to include each half term: at active learning x active learning x outdoor science lesson at child-led investigations x child-led investigation x enquiry type lesson Science Display: Enquiry types Photographs Vocabulary