St Pauls CE Academy—Science					
Topic: Animals Including Humans Year: 3				Term: 1	
What should I already know?			Vocabulary		
 The parts of the human body and what they do. There are five types of vertebrates (mammals, fish, reptiles, amphibians, birds). Vertebrates are animals that have a backbone. 		backbone	the column of small linked bones down the middle of your back also known as a spine		
		bones	the hard parts inside your body which form your skeleton		
 Invertebrates are animals that do not have a backbone. All animals need water, air and food to survive. 		contract	to make smaller by drawing together; shrink or make tighter		
• The different ways in which humans can be healthy.			elbow	the bend or joint between the upper arm and the lower arm	
What will I know by the end of the unit?		endoskeleton	the internal skeleton of an animal, especially the bony skeleton of vertebrates		
What are the different types of skeletons?	 Vertebrates are animals that hav endoskeletons - this means that badies. These skeleters commutit 	e a backbone. These skeletons are called the skeletons are on the inside of the in the bodies. It the body, it is called an supports and protects animals. These on is grown.	exoskeleton	the protective or supporting structure covering the outside of the body of many animals	
	 When the skeleton exists outside exoskeleton. 		joints	the junction between two or more bones muscles	
	 An exoskeleton is a covering that have to be shed and a new skeleto Image: An exoskeleton is a covering that have to be shed and a new skeleton Image: An exoskeleton is a covering that have to be shed and a new skeleton Image: An exoskeleton is a covering that have to be shed and a new skeleton Image: An exoskeleton is a covering that have to be shed and a new skeleton Image: An exoskeleton is a covering that have to be shed and a new skeleton Image: An exoskeleton is a covering that have to be shed and a new skeleton Image: An exoskeleton is a covering that have to be shed and a new skeleton Image: An exoskeleton is a covering that have to be shed and a new skeleton Image: An exoskeleton is a covering that have to be shed and a new skeleton Image: An exoskeleton is a covering that have to be shed and a new skeleton Image: An exoskeleton is a covering that have to be shed and a new skeleton Image: An exoskeleton is a covering that have to be shed and a new skeleton Image: An exoskeleton is a covering that have to be shed and a new skeleton Image: An exoskeleton is a covering that have to be shed and a new skeleton Image: An exoskeleton is a covering that have to be shed and a new skeleton Image: An exoskeleton is a covering that have to be shed and a new skeleton Image: An exoskeleton is a covering that have to be shed and a new skeleton Image: An exoskeleton is a covering that have to be shed and a new skeleton Image: An exoskeleton is a covering that have to be shed and a new skeleton Image: An exoskeleton is a covering that have to be shed and a new skeleton Image: An exoskeleton is a covering that have to be shed and a new skeleton Image: An exoskeleton is a covering that have to be shed and a new skeleton		muscles	something inside your body which connects two bones and which you use when you make a movement	
			organs	a part of your body that has a particular purpose	
			protect	protecting someone or something means to prevent them from being harmed or damaged	
			relax	when a part of your body relaxes, or when you relax it, it becomes less stiff or firm	
			skeleton	the framework of bones in your body support to hold something up	
			tendon	a strong cord in a person's or animal's body which joins a muscle to a bone	
What does an endoskeleton	• The three most important things	a skeleton does are:	vertebrate	a creature which has a spine	
90% 20%	\Rightarrow allow movement through the joint	allow movement through the joints		Diagram—The Human Skeleton	
How do we move?	 Joints are where bones meet - they allow our bodies to move. Muscles contract and relax. If you place an elbow on a desk and lift your arm up, muscles in your upper arm (biceps) contract while muscles behind the upper arm (triceps) relax. The muscles work together and in opposition to allow your arm to move. Muscles are connected to bones by tendons. 			Cranium Maxilla Mandible Sternum Humerus Sacrum Carpals Femur Fibula Fibula Tibla Tarsals	
Skills to be covered in this unit				MetatarsalsPhalanges	
 Identifying 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. 			Investigate		
 Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions. Asking relevant questions and using different types of scientific enquiries to answer them. Setting up simple practical enquiries, comparative and fair tests. Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers. Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions. Using straightforward scientific evidence to answer questions or to support their findings. 			 Identify and group animals with and without skeletons and compare the ways in which they move. Match animals to their skeletons and explain your reasons for this. Explore ideas about what would happen if humans did not have skeletons. Identify which bones are used for support (e.g. backbone) which are used for protection (e.g. cranium) and which are used for movement (e.g. joints). Create a presentation to show how muscles contract and relax. Compare the size of straight arms and bent arms. What do you notice? 		