

Science Skills Unit: Human Senses and Movement		Year: 4
Science Skills Unit Overview		
<ul style="list-style-type: none"> • Pupils will consider the body structures and systems and the interactions of the nervous, skeletal, and muscular systems that produce the body’s motion. • Pupils will know and understand that most of the time, when they move a body part, that movement is initiated or guided by their senses. • Pupils will learn that their bodies are coordinating complex operations among multiple body systems with every movement. 		
Key Vocabulary		
Enable, serve, hearing, sound, vibrate Auditory nerve, cochlea, detect, ear canal, ear drum, enable, outer ear Cornea, iris, lens, optic, optic nerve, pupil retina, vision, involuntary muscle, muscle, voluntary muscle Contract, function, system, tissue, voluntary Bone, connective tissue, coordinated, joint, organ, skeletal system, spine, tissue Brain, electrical impulses, nervous system, optic nerve, spinal cord		
Further reading list <i>(Reading these commercial texts would support and enhance learning in this domain.)</i>		
<ul style="list-style-type: none"> • Matilda by Hilare Belloc • “Blood, Muscles and your Skeleton,” by Data for Life. • “The Human Body,” by S. Stevens. • Knowledge Encyclopaedia Human Body! – DK • Human Body (DKfindout!) • My First Book of the Human (Collins My First) 		
Independent Learning Project <i>Pupils are asked to complete at least one independent learning project at home during the Science Skills Unit.</i> <i>Some suggestions are below.</i>		
Make an information brochure, PowerPoint or booklet about a system or organ in the human body.	Create a model skeleton out of straws/sticks/pasta etc.	Use elastic bands or balloons to create a working joint with muscles.
Draw and label a skeleton.	Be kind to your heart! Research information and plan ideas for a weekly menu of food that your heart would love. For instance, spinach, porridge, blueberries, salmon and soya protein are all heart-healthy.	Find out about the size and structure of a human heart and compare it to the size, structure and number of hearts in other animals. (Worms have five!)
Create an exercise plan for maintaining a healthy heart.	Draw a diagram of the human body and label the main organs.	Create a poster showing people how to eat healthily. Include the main food groups and what makes up a balanced diet.
Keep a food diary for a week and record how many times you eat fruit and vegetables, food and drinks high in fat or sugar, milk and dairy foods proteins, carbohydrates.	Plan a menu for an evening meal making sure it is balanced.	Draw a plate of food and label all the food groups.