



St. Francis Xavier's RC Primary School

Science Unit Guidance and Formative Assessment

Year Group:	Year 6 - Autumn Term 1	Subject:	Science
Unit:	<p>Animals including humans – Catch-Up from Year 5. There are six main stages of human development: foetus, baby, child, adolescent, adult, elderly/ old age. During the first year of life, babies develop and grow from a new born to a toddler. Many physical and emotional changes happen in puberty. A gestation period is the development during the carrying of an embryo, foetus and varies between animals.</p>	Prerequisite Learning and Curriculum Links	<p>EYFS ELG The Natural World Year 1 Body and Senses Year 2 Animals and Humans Year 3 Animals including Humans Year 4 Teeth and Digestion Year 5 Human development, puberty, gestation. Curriculum Links in Year 6 Maths Line graphs to check pulse rate Literacy leaflets</p>

ROCKS (Remembering Our Curriculum Knowledge and Skills)

To identify and name the main parts of the circulatory system.

To describe the ways in which nutrients and water are transported within the human body.

To recognise the impact of a healthy diet and exercise on the human body.

To understand the impact of drugs and alcohol on the human body.

Progressive Journey:

Naming the different parts of the circulatory system and understanding their function. What the lungs do, what the heart does, what the blood carries. The parts of the heart, the parts of the lungs, including alveoli. What arteries, veins and capillaries do and what the blood contains. The exchange of gases in the lungs. The functions within the digestive system and how nutrients and water are transported around the body. The different types of exercise and their benefits. What a balanced diet is and foods within each group. To plan a scientific investigation, carry it out understanding the notion of controlled variables and fair testing. To record, report and present results accurately and appropriately. The damage caused by drugs and alcohol on different parts of the body.

Skills:

Labelling diagrams to recall information. Writing explanations and answering questions to show understanding. Presenting information coherently in the form of a leaflet and in a presentation to the class. Planning, carrying out and drawing conclusions from an investigation.

Key Vocabulary

Session 1 System, human, body, circulatory, circulation, skeletal, muscular, digestive, organs, parts, heart, lungs, blood vessels, aorta, atrium, ventricle, artery, vein, pulmonary, superior vena cava, inferior, pulmonic, aortic valve, trachea, bronchus, bronchiole, diaphragms, air sacs, alveoli, capillary, intercostal muscles and ribs. **Session 2:** Nutrients, nutrition, water, system, circulatory, digestive, skeletal, muscular, blood, blood vessels, heart, lungs, stomach, gall bladder, liver, small intestine, large intestine, pancreas, liver, kidneys, rectum, bladder. **Session 3:** Healthy, lifestyle, diet, exercise, nutrition, nutrients, food, water, cells, body, human, organs, vitamins, minerals, protein, fats, carbohydrates, water, fibre. **Session 4** Exercise, fitness, healthy, unhealthy, types, pulse, heart rate, investigation, results, record, table, graph, chart, report, degrees of trust.