

Oswaldtwistle School Pathways Long Term Plan

Topic/Learning Pathway		Key Words	Links to previous learning	Links to wider curriculum
AUTUMN 1	Science and the human body	Risk factor, circulatory, respiratory, nervous, skeletal, muscular, digestive, excretory, endocrine, immune, integumentary, reproductive	<p>KS1 Naming body parts, linking organs to senses, All living things have babies, Requirements for humans- health (water, exercise, types of food, hygiene)</p> <p>KS2 Breaking down food for energy, use of different teeth, function of heart/blood vessels, nutrient transport systems, Nutrition, changes through age in humans, impact of diet/drugs on health, Muscles, skeleton, nerves, nutrient transport</p>	<p>KS3 – PSHE, Autumn 2 – healthy eating</p> <p>KS4 - Maths, Summer 1 – graphs and charts</p> <p>PE, Spring 1 – exercise and the body</p>
AUTUMN 2	Food and Health	Nutrition, diet, carbohydrates, lipids, proteins, coeliac, diabetic	<p>KS1 Requirements for humans- health (water, exercise, types of food, hygiene)</p> <p>KS2 Nutrition, changes through age in humans, impact of diet/drugs on health</p>	<p>KS3 – PSHE, Autumn 2 – healthy eating</p> <p>KS4 - Maths, Spring 1 – fractions, decimals and percentages.</p> <p>KS4 - Home cooking, Autumn 1 – weights and measuring, hygiene</p> <p>KS4 - Home cooking, Autumn 2 – nutrition and recipes</p> <p>KS4 - Home cooking, Spring 1 – meal planning and special diets, practical aspect</p>
SPRING 1	Introduction to Animal Care	Nutrition, hydration, gene, disease, pathogen, symptom, selective breeding, desired trait	<p>KS2 Breaking down food for energy, use of different teeth, function of heart/blood vessels, nutrient transport systems, Nutrition, changes through age in humans, impact of diet/drugs on health, Muscles, skeleton, nerves, nutrient transport</p>	

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<p>SPRING 2</p>	<p>Plant world Land maintenance</p>	<p>Germination, photosynthesis, gravitropism, hydrotropism, phototropism, NPK, chlorophyll, chloroplast, nucleus, stamen, carpel, pollination, organism, hazard, fertiliser, magnesium, nutrient, shrub</p>	<p>KS2 Parts of plants, needs of plants and their life cycle, living things and their habitats</p>	<p>KS4 - Maths, Summer 1 – area, perimeter and volume KS4 - Construction, Autumn 1 – health and safety</p>
<p>SUMMER 1</p>	<p>Science and our Universe</p>	<p>Sun, planet, comet, asteroid, moon, galaxy, electromagnetic spectrum, telescope, space probe, atmosphere, volcano, tectonic plate</p>	<p>KS2 Movement of planets around sun, movement of the Moon, describing earth, moon and sun, day and night, path of sun in sky, seasons, weather associated with the seasons and how day length varies.</p>	<p>KS4 - Maths, Spring 1 – fractions, decimals and percentages. KS3/4 – Maths, Autumn 1 – standard form KS3 – Nurture, Autumn 1/2 – The Martian (planets) KS3- Nurture, Summer 1/2 – The Lord of the Rings (volcanoes)</p>
<p>SUMMER 2</p>	<p>Making Useful Compounds</p>	<p>Acid, alkali, base, neutralisation, hazard, poisonous, corrosive, toxic, compound</p>	<p>KS2 Changes form new compound, non-reversible changes, dissolving, mixing, states of matter,</p>	<p>KS4 - Maths, Summer 1 – area, perimeter and volume KS4 - Construction, Autumn 1 – health and safety</p>