

ECCLESTON ST. MARY'S CE PRIMARY SCHOOL CURRICULUM OVERVIEW – SCIENCE

YEAR GROUP	PHYSICS		CHEMISTRY	BIOLOGY		
RECEPTION	<p>In Reception Class, children are encouraged to be inquisitive and to develop a passion for investigation. They have frequent opportunities for outdoor play and to interact with the outdoors, using all their senses to experience the world around them in a hands-on way. They observe nature eg birds, plants, mini-beasts and draw, discuss and comment on what they have seen. They learn the names of a variety of other plants and animals</p> <p>They observe and interact with natural processes such as ice melting, vibration causing a sound, shadows, magnets, boats floating and sinking.</p> <p>Children are encouraged to note the changing seasons and to describe how nature changes with each season.</p>					
YEAR ONE	SEASONAL CHANGES -SEASONAL WEATHER -DAY LENGTH	SEASONAL CHANGES -CHANGES ACROSS THE SEASONS	EVERYDAY MATERIALS -COMPARE AND GROUP MATERIALS ACCORDING TO THEIR PROPERTIES	ANIMALS INC. HUMANS - BASIC PARTS OF THE HUMAN BODY - SENSES	ANIMALS INC. HUMANS -SORTING AND CLASSIFYING FISH, AMPHIBIANS, REPTILES, BIRDS, MAMMALS	PLANTS -BASIC STRUCTURES OF TREES AND FLOWERS
YEAR TWO			EVERYDAY MATERIALS -SUITABILITY OF VARIOUS MATERIALS FOR CERTAIN JOBS; ABILITY TO BEND ETC	ANIMALS INC. HUMANS -ANIMALS, INC HUMANS, HAVE OFFSPRING THAT GROW INTO ADULTS -BASIC NEEDS FOR SURVIVAL – AIR, FOOD, WATER -EXERCISE/ HEALTHY-LIVING	LIVING THINGS AND THEIR HABITATS -LIVING, DEAD AND NEVER BEEN ALIVE -PLANTS AND ANIMALS SUITED TO THEIR HABITATS -DIFFERENT TYPES OF HABITATS AND MICRO-HABITATS -SIMPLE FOOD CHAINS AND FOOD SOURCES	PLANTS -HOW SEEDS AND BULBS GROW INTO PLANTS -CONDITIONS NEEDED FOR HEALTHY GROWTH
YEAR THREE	LIGHT	FORCES AND MAGNETS	ROCKS	ANIMALS INC HUMANS	PLANTS	PLANTS

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	<ul style="list-style-type: none"> -WE NEED LIGHT TO SEE -DARKNESS IS THE ABSENCE OF LGHT -SHADOWS 	<ul style="list-style-type: none"> -COMPARE MOVEMENT ON DIFFERENT SURFACES; MOVEMENT USUALLY NEEDS CONTACT BUT MAGNETS ARE DIFFERENT. -MAGNETISM 	<ul style="list-style-type: none"> -GROUP AND COMPARE TYPES OF ROCKS, FOSSILS AND SOILS 	<ul style="list-style-type: none"> -NUTRITION -SKELETONS AND MUSCLES 	<ul style="list-style-type: none"> -TRANSPORTATION OF WATER IN PLANTS -LIFE CYCLES OF FLOWERS 	<ul style="list-style-type: none"> -FUNCTIONS OF DIFFERENT PARTS OF PLANTS -REQUIREMENTS FOR LIFE AND GROWTH
YEAR FOUR	<ul style="list-style-type: none"> SOUND -ASSOCIATE SOUND WITH VIBRATION -PITCH; VOLUME; EFFECT OF DISTANCE 	<ul style="list-style-type: none"> ELECTRICITY -SIMPLE CIRCUITS; SWITCHES; CONDUCTORS AND INSULATORS 	<ul style="list-style-type: none"> STATES OF MATTER -SOLIDS, LIQUIDS AND GASES; CHANGES WHEN HEATED OR COOLED -THE WATER CYCLE 	<ul style="list-style-type: none"> ANIMALS INC HUMANS -HUMANS' DIGESTIVE SYSTEM -TEETH -FOOD CHAINS – PRODUCERS, PREDATORS AND PREY 	<ul style="list-style-type: none"> LIVING THINGS AND THEIR HABITATS -EXPLORE AND USE CLASSIFICATION OF LIVING THINGS 	<ul style="list-style-type: none"> LIVING THINGS AND THEIR HABITATS -ENVIRONMENTS CAN CHANGE AND CAUSE DANGER TO LIVING THINGS
YEAR FIVE	<ul style="list-style-type: none"> FORCES -GRAVITY -AIR AND WATER RESISTANCE -USE OF LEVERS, PULLEYS AND GEARS 	<ul style="list-style-type: none"> SPACE -THE SOLAR SYSTEM - THE EARTH'S ROTATION AS EXPLANATION OF DAY AND NIGHT AND APPEARANCE OF SUN TO MOVE ACROSS THE SKY 	<ul style="list-style-type: none"> PROPERTIES OF MATERIALS -COMPARE PROPERTIES OF MATERIALS; DISSOLVING AND REVERSAL; FILTERING, SIEVING AND EVAPORATION TO SEPARATE MATERIALS -REVERSIBLE AND IRREVERSIBLE CHANGES 	<ul style="list-style-type: none"> ANIMALS INC HUMANS -CHANGES AS HUMANS DEVELOP TO OLD AGE 	<ul style="list-style-type: none"> LIVING THINGS AND THEIR HABITATS -DIFFERENCES IN LIFE CYCLES BETWEEN MAMMALS, INSECTS, AMPHIBIANS AND BIRDS 	<ul style="list-style-type: none"> LIVING THINGS AND THEIR HABITATS -REPRODUCTION IN SOME PLANTS AND ANIMALS

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<p>YEAR SIX</p>	<p>LIGHT -LIGHT TRAVELS IN STRAIGHT LINES -HOW WE SEE THINGS -WHY SHADOWS ARE THE SAME SHAPE AS THE OBJECT THAT CASTS THEM</p>	<p>ELECTRICITY -HOW TO ALTER THE BRIGHTNESS, LOUDNESS OF A BULB / BUZZER IN A SIMPLE CIRCUIT -GIVE REASONS FOR VARIATIONS IN HOW COMPONENTS FUNCTION -SYMBOLS IN CIRCUIT DIAGRAMS</p>	<p>ANIMALS INC HUMANS -HUMAN CIRCULATORY SYSTEM -IMPACT OF EXERCISE, DIET,DRUGS AND LIFESTYLE ON THE BODY -THE WAYS IN WHICH WATER AND NUTRIENTS ARE TRANSPORTED IN THE BDOY INC HUMANS</p>	<p>MICRO-ORGANISMS -CLASSIFICATION BASED ON SIMILARITES AND DIFFERENCES INC MICRO-ORGANISMS, PLANTS AND ANIMALS</p>	<p>EVOLUTION AND INHERITANCE -HOW VARIOUS ANIMALS EVOLVED AND ADAPTED TO THEIR ENVIRONMENT</p>
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