



Year Four: Thoresby Class					
Autumn		Spring		Summer	
Electricity (PB) N.C. Y4 PoS	Classifying living things and their habitats (Tw) N.C. Y4 PoS	Teeth & the digestive system (PB) N.C. Y4 PoS	States of Matter (PB) N.C. Y3 PoS	Sound (PB) N.C. Y3 PoS	What do scientists do? (PB) KS2 N.C. Consolidation Unit
Key Vocabulary Circuit, appliance, switch, buzzer, bulbs, conductors, insulators, battery, open circuit, plugs, mains, energy, short circuit	Key Vocabulary Habitat, variety, organisms, characteristics, classification, key, identify, environments, vertebrate, invertebrate, mammal, amphibian, insect, reptile, fish, plants	Key Vocabulary Carnivore, herbivore, omnivore, teeth, canine, molar, function, food chain, sets of teeth, digestive system, food source, digest, digesting, function, stomach, intestine, oesophagus, organs	Key Vocabulary Solid, liquid, gas, sort, melting, freezing, difference, evaporate, evaporation, condensation, precipitation, material, water cycle	Key Vocabulary Vibrate, pitch, waves, muffle, low, high, thickness, tightness, source, volume, air vibrating	Key Vocabulary Branches of science, patterns, similarities, variables, observations, conclusions, data, record, method, classify, hypothesis, conclude, predict, describe

Scientific Knowledge to be covered throughout the year				
Term	Disciplinary Knowledge	Biology	Chemistry	Physics
Autumn 1: Electricity	<u>Comparative and fair testing</u> <ul style="list-style-type: none"> Y4: Know that an experiment has variables Y4: Know that experiments have to be fair <u>Identifying and classifying</u> <ul style="list-style-type: none"> Y4: Know that scientific ideas and processes determine how living and non-living things are 			<ul style="list-style-type: none"> Know common appliances that run on electricity. Know and construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers. Know whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery. Know that a switch opens and closes a circuit and associate this



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	classified and sorted using branching keys. Gathering and recording <ul style="list-style-type: none"> • Y4: Know that patterns can be identified in results. 			with whether or not a lamp lights in a simple series circuit. <ul style="list-style-type: none"> • Know some common conductors and insulators, and associate metals with being good conductors.
Autumn 2: Classifying living things and their habitats	<ul style="list-style-type: none"> • Y4: Know that patterns can be identified through data collection. 	<ul style="list-style-type: none"> • Know that living things can be grouped in a variety of ways. • Know, explore and use classification keys. • Know that environments can change and that this can sometimes pose dangers to specific habitats. 		
Spring 1: Teeth & the digestive system		<ul style="list-style-type: none"> • Know and describe the simple functions of the basic parts of the digestive system in humans. • Know the different types of teeth in humans and their simple functions. 		
Spring 2: States of Matter			<ul style="list-style-type: none"> • Know, compare and group materials together, according to whether they are solids, liquids or gases. • Know and observe that some materials change state when they are heated or cooled, and measure the temperature at which this happens in degrees Celsius (°C), building on their teaching in mathematics. • Know the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature. 	
Summer 1: Sound				<ul style="list-style-type: none"> • Know how sounds are made, associating some of them with something vibrating.



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				• Know that vibrations from sounds travel through a medium to the ear.
Summer 2: What do scientists do?		(Working Scientifically)	(Working Scientifically)	(Working Scientifically)