THOMAS EATON LONG-TERM SEQUENCE FOR SCIENCE **CYCLE A** (EYFS – Year 6)

BIG IDEAS - SUBSTANTIVE CONCEPTS					
BIOLOGY	CHEMISTY	PHYSICS			

Pre-School 2 year olds	Pre-School 3-4 year olds	Reception	Year 1 & 2	Year 3	Year 4 & 5	Year 6
Autumn Term						
Oral hygiene Hand washing Family members Ourselves as babies	Oral hygiene Hand washing Make observations about immediate environments.	Change- from baby to childhood Colour mixing.	Introduce Living things and habitats. BIOLOGY	Animals including humans BIOLOGY	Properties & changes of materials CHEMISTRY	Living things & their habitats - classification BIOLOGY Light PHYSICS
Spring Term						
Differences between ourselves and our peers Explore natural materials.	Growing- similarities and differences. Light/dark Healthy eating	Healthy and Safer Lifestyles. My Body & Growing Up Caring for animals. Animals and habitats/ environments. Nocturnal/diurnal animals. Weather/Seasons Plants and growing- keeping a seed diary. Fruit salad/Pitta pizza making	Introduce Animals, including humans. BIOLOGY Introduce Uses of Everday materials CHEMISTRY	Introduce rocks PHYSICS	Forces PHYSICS Earth & space PHYSICS	The circulatory system BIOLOGY Water transportation in animals BIOLOGY
Summer Term						
Explore the natural world and living things. Baby animals	To talk about and describe changes in my environment. Life cycles Exercise Living creatures	Healthy & Safer Lifestyles Healthy LifestyleS Materials: Floating / Sinking – boat building Metallic / non-metallic objects	Introduce Plants BIOLOGY	Introduce Light Introduce Forces & Magnets	Introduce living things & their habitats - life cycles, Life cycles including changes in humans BIOLOGY	Electricity – advanced circuits PHYSICS Evolution & inheritance BIOLOGY

APPARATUS & TECHNIQUES		DATA ANALYSIS	HOW EVIDENCE IS USED TO DEVELOP EXPLANATIONS
PRACTICAL ENQUIRY & FAIR TESTING	TEST & OBSERVE	IDENTIFY SIMILARITIES, DIFFERENCES/ CHANGES	GATHER, RECORD & PRESENT DATA	DRAW CONCLUSIONS

THOMAS EATON LONG-TERM SEQUENCE FOR SCIENCE **CYCLE B** (EYFS – Year 6)

BIG IDEAS - SUGGESTED SUBSTANTIVE CONCEPTS					
	BIOLOGY	CHEMISTY	PHYSICS		

Pre-School2 year olds	Pre-School 3-4 year olds	Reception	Year 1 & 2	Year 3	Year 4 & 5	Year 6
Autumn Term						
Oral hygiene Hand washing Family members Ourselves as babies	Oral hygiene Hand washing Make observations about immediate environments.	Change- from baby to childhood Colour mixing.	Seasonal Changes and Weather BIOLOGY Introduce Plants, including trees BIOLOGY	Introduce Animals including Humans BIOLOGY Introduce Forces & Magnets PHYSICS	Living things and their habitats BIOLOGY Introduce states of matter CHEMISTRY	Living things & their habitats - classification BIOLOGY Light PHYSICS
Spring Term						
Differences between ourselves and our peers Explore natural materials.	Growing- similarities and differences. Light/dark Healthy eating	Healthy and Safer Lifestyles. My Body & Growing Up Caring for animals. Animals and habitats/ environments. Nocturnal/diurnal animals. Weather/Seasons Plants and growing- keeping a seed diary. Fruit salad/Pitta pizza making	Introduce Animals, including humans. BIOLOGY	Introduce Plants BIOLOGY	Introduce Animals, humans, teeth and function BIOLOGY Introduce Animals, including human digestion BIOLOGY Introduce Animals, including humans Food chains, producer, predators and prey BIOLOGY	The circulatory system BIOLOGY Water transportation in animals BIOLOGY
Summer Term						
Explore the natural world and living things. Baby animals	To talk about and describe changes in my environment. Life cycles Exercise Living creatures	Healthy & Safer Lifestyles Healthy LifestyleS Materials: Floating / Sinking – boat building Metallic / non-metallic objects	Introduce Uses of Everday materials CHEMISTRY	Introduce Rocks PHYSICS	Introducing electricity PHYSICS Introduce sound PHYSICS	Electricity – advanced circuits PHYSICS Evolution & inheritance BIOLOGY

APPARATUS & TECHNIQUES	DATA ANALYSIS	HOW EVIDENCE IS USED TO DEVELOP EXPLANATIONS	
PRACTICAL ENQUIRY & FAIR TESTING	TEST & OBSERVE	IDENTIFY SIMILARITIES, DIFFERENCES/ CHANGES	GATHER, RECORD & PRESENT DATA	DRAW CONCLUSIONS