Manchester Hospital School Long Term Plan								
	RMCH, The Christie, Wythenshawe Hospital and North Manchester General Hospital							
	Science							
At secondary the home school sequence is followed where possible. Please see knowledge and skills sequence of learning for further information relating to programmes of study								
KS4	Biology	Chemistry	Physics					
	Cells and organisation B1 Cell structure and transport B2 Cell division B3 Organisation and the digestive system B4 Organising plants and animals Disease and bioenergetics B5 Communicable disease B6 Preventing and printing disease B7 Non-communicable disease B8 Photosynthesis B9 Respiration Biological responses B10 The human nervous system B11 Hormonal coordination Genetics and evolution B12 Reproduction B13 Variation and evolution B14 Genetics and evolution B15 Adaptations, interdependence and competition B16 Organising an ecosystem B17 Biodiversity and ecosystems	Atoms, bonding and moles C1 Atomic structure C2 Periodic table C3 Structure and bonding C4 Chemical calculations Chemical reactions and energy changes C5 Chemical changes C6 Electrolysis C7 Energy changes Rates, equilibrium and organic chemistry C8 Rates and equilibrium C9 Crude oil and fuels Analysis and the Earth's resources C10 Chemical analysis C11 The earth's atmosphere C12 The earth's resources	Energy and energy resources P1 Conservation and dissipation of energy P2 Energy transfer by heating P3 Energy resources Particles at work P4 Electric circuits P5 Electricity in the home P6 Molecules and matter P7 Radioactivity Forces in action P8 Forces in Balance P9 Motion P10 Forces and motion Waves, electromagnetism and space P11 Wave properties P12 Electromagnetic waves P13 Electromagnetism					
KS3	Biology	Chemistry	Physics					
	Cells	Particle behaviour	Forces					

Body systems Reproduction in plants and animals Health and lifestyle Biological processes Ecosystems and adaption Inheritance	Atoms, elements & compounds Reactions Acids and Alkalis The periodic table Separation techniques Metals and other materials The Earth	Sound Light Space Electricity and magnetism Energy Motion and pressure
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Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
6	Animals incl Humans	Looking after our environment	Living things and their habitats	Electricity	Evolution	Light
5	Animals incl Humans	Properties of Materials	Living things and their habitats	Earth and Space	Forces	Changes of Materials
4	Animals incl. Humans	States of Matter	Living things and their habitats	Electricity	Living things and their habitats (Conservation)	Sound
3	Animal incl humans	Rocks	What do scientists do?	Plants	Forces and magnets	Light
2	Animals incl Humans (Growth)	Use of everyday materials	Living things and their habitats	Plants	Animals incl Humans (Life-cycles)	Living things and their habitats (Around the world)
1	Animals incl Humans (All about me)	Use of everyday materials	Animals incl Humans	Plants	Seasonal changes	Use of everyday materials 2

			(Animals)			
EYFS	Happy to be Me (5 senses / body part names)	Tell us a story/Christmas (Planting and growing / Animals / Materials)	No Place Like Home (Animal shelters / Light and Shadow)	What on Earth (Animals and their habitats / Spring / Planting and growing)	Under the Sea (Sea creatures)	Come Fly with Me Asia