

**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

<p align="center">KS4</p>	<p align="center">Biology</p> <p align="center">Cells and organisation</p> <p>B1 Cell structure and transport B2 Cell division B3 Organisation and the digestive system B4 Organising plants and animals</p> <p align="center">Disease and bioenergetics</p> <p>B5 Communicable disease B6 Preventing and printing disease B7 Non-communicable disease B8 Photosynthesis B9 Respiration</p> <p align="center">Biological responses</p> <p>B10 The human nervous system B11 Hormonal coordination</p> <p align="center">Genetics and evolution</p> <p>B12 Reproduction B13 Variation and evolution B14 Genetics and evolution</p> <p align="center">Ecology</p> <p>B15 Adaptations, interdependence and competition B16 Organising an ecosystem B17 Biodiversity and ecosystems</p>	<p align="center">Chemistry</p> <p align="center">Atoms, bonding and moles</p> <p>C1 Atomic structure C2 Periodic table C3 Structure and bonding C4 Chemical calculations</p> <p align="center">Chemical reactions and energy changes</p> <p>C5 Chemical changes C6 Electrolysis C7 Energy changes</p> <p align="center">Rates, equilibrium and organic chemistry</p> <p>C8 Rates and equilibrium C9 Crude oil and fuels</p> <p align="center">Analysis and the Earth's resources</p> <p>C10 Chemical analysis C11 The earth's atmosphere C12 The earth's resources</p>	<p align="center">Physics</p> <p align="center">Energy and energy resources</p> <p>P1 Conservation and dissipation of energy P2 Energy transfer by heating P3 Energy resources</p> <p align="center">Particles at work</p> <p>P4 Electric circuits P5 Electricity in the home P6 Molecules and matter P7 Radioactivity</p> <p align="center">Forces in action</p> <p>P8 Forces in Balance P9 Motion P10 Forces and motion</p> <p align="center">Waves, electromagnetism and space</p> <p>P11 Wave properties P12 Electromagnetic waves P13 Electromagnetism</p>
<p align="center">KS3</p>	<p align="center">Biology</p> <p>Cells</p>	<p align="center">Chemistry</p> <p>Particle behaviour</p>	<p align="center">Physics</p> <p>Forces</p>

	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
--	--	---	---

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
6	War of the Worlds (Animals incl Humans)		And the band played on (Living things and their habitats)	Full of Beans (Electricity)	Walk like an Egyptian (Light)	Been around the world (Evolution)
5	Mission Control (Earth and Space)	Global Warning (Properties and Changes of Materials)	I Have a Dream (Animals incl Humans)	Come Fly with Me America (Properties and changes of materials)	Vikings (Forces)	
4	Lightning Speed (Electricity)	Operation Pied Piper (States of Matter)		Picture our Planet (Sound)	Saxon King (Animals incl. Humans)	Out and About (Living things and their habitats)
3	Ug (Animals incl Humans)	Window on the World (Light)		Rocky the Findosaur (Rocks, Forces and Magnets)	Come fly with me Africa (Living things and their habitats)	Under the Canopy (Plants)
2	Land Ahoy (Forces and Motion)		Going Wild with Paddington (Animals incl Humans)	Unity and the Community (Plants)	Beside the Seaside (Living things and their habitats)	Jurassic Hunter (Use of everyday materials)
1	Never eat shredded wheat (Plants)	The Famous Five (Seasonal changes)	Come Fly with Me Arctic Circle (Use of everyday materials)		Fairies and Frogs (Animals incl Humans)	

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
-------------	--	---	--	---	----------------------------------	--------------------------