

Long term curriculum planning Astbury St Mary's: Science

All units in each year will be taught. If a unit links more to a specific topic in a different term, the units can be moved within a year.

The science curriculum builds year on year with progress in scientific enquiry skills being developed from EY – Y6.

		Knowledge	working scientifically
2019/2020 Year A – seasonal changes throughout – seasons walk			Y1/2
Link	geography – continents and oceans		
Aut	Animals – habitats Peak Wildlife park	See ASE planning matrices	asking questions observing closely – picture and visit suggest answers to questions identifying
Link			
Spring	Plants – the process of growing Garden centre visit		asking questions observing closely suggest answers to questions gathering and recording data to answer questions
Link			
Summer	Materials and their properties		asking questions performing simple tests identifying and classifying gathering and recording data to answer questions – venn diagram and simple table
2020/2021 Year B - seasonal changes throughout - seasons walk			Y1/2
Link	Build knowledge from previous year		
Aut	Humans parts and animal classification		identifying and classifying asking questions observing closely gathering and recording data to answer questions – venn diagram, pictogram
Link	Build knowledge from previous year		
Spring	Plants - parts		asking questions observing closely suggest answers to questions gathering and recording data to answer questions – simple table to record number of petals, leaves etc
Link	Build knowledge from previous year		
Summer	Materials – uses and suitability		performing tests gathering and recording data to answer questions – simple table and graph
2019/2020 Year A			Y3/4
Links			
Aut	Electricity		asking relevant questions Electricity book Phizzi book enquiry C or D NC page 14 comparative enquiry and classifying
	Sound		pattern seeking Phizzi book Enquiries G -J
Link			
Spring	States of matter		observation over time research
Link	Build knowledge from Y1/2		
Sum	Animals including humans		observations over time identifying and classifying

	Living things and their habitats		research
2020/2021 Year B			Y3/4
Link A and B			
Aut	Rocks Forces and magnets		research identifying and classifying comparative and fair testing pattern seeking
Link	Build knowledge from Y1/2		
Spring	Plants – functions of different parts, pollination		research comparative English – non chronological report
Link	Build knowledge from Y1/2		
Sum	Light Animals including humans – nutrition, skeletons and muscles		comparative – shadow changes Light Phizzy book Enquiry E observing changes over time – eg pulse research, classifying food pattern seeking – can people with longer legs run faster? etc.
2019/2020 Year A			Y5/6
Link			
Aut	Earth and space Properties and changes of materials		research, secondary sources identifying scientific evidence NC page 25 Phizzi book enquiries C to J Controlling variables Pattern seeking observation over time comparative and fair testing classifying taking measurements using a range of scientific equipment recording data and results
Link	Build knowledge from Y3/4		
Spring	Forces – resistance		Controlling variables repeat readings as appropriate research – Isaac Newton and Galileo comparative and fair testing using test results to make predictions diagrams and labelling
Link	Build knowledge from Y3/4		
Sum	Animals, including humans – human changes from birth to old age Living things and their habitats – lifecycles / reproduction (link to SRE)		observations over time through research comparative research pattern seeking – size of animal and expected lifespan observations over time
2020/2021 Year B			Y5/6
Link	Build knowledge from Y3/4		
Aut	Electricity		Controlling variables

	Animals including humans circulatory system and lifestyle		Phizzi book enquiries E – J making predictions and fair testing fair testing pattern seeking observations over time research
Link	Build knowledge from Y3/4		
Spring	Evolution and inheritance Living things and their habitats		observation over time through research identifying scientific evidence. Research (Carl Lannaesus) Observations Classification keys report and present findings from enquiries. – imaginary animal.
Link	Build knowledge from Y3/4		
Sum	Living things and their habitats cont. Light - Variables		See above. Controlling variables Phizzi Book Enquiries D and F test results, predictions, pattern seeking, taking measurements. Recording data and results of increasing complexity.