



Year 5 and 6	Vocabulary	Working	Knowledge, Skills	Cross-Curricular	Enquiry Question
		Scientifically	and Understanding	Links	



<u>2021-2022</u>



A +	'Dwarf planet	Planning	Earth and Space	Art- Design and create	How does the size if an
Autumn	Astronomical clocks	• Can they plan and carry out		own planets	object affect the rate
Accuracy	Celestial body	a scientific enquiry to answer	IDdescribe the movement of	·	it falls at?
Accurate	Earth	guestions, including	the Earth, and other	English - Planet non	
Answer	Geocentric model Heliocentric model	recognising and controlling	planets, relative to the Sun	information text	How do the planets in
Answers	Jupiter	variables where necessary?	in the solar system		the solar system
Bar charts	Mars	,		Maths - Tables and charts	differ?
	Mercury	 Can they make a prediction 	Idescribe the movement of	to present data.	
Careful	Moon	with reasons?	the Moon relative to the		Does the length of a
Causal relationships	Neptune		Earth		lever effect the size of
Changes	Night and day	• Can they use test results to	00describe the Sun, Earth		a force produced
Classification keys	Orbit Planets	make predictions to set up	and Moon as approximately		(making a shaduf/trabuchte)?
Classify	Planets	comparative and fair tests?	spherical bodies		snadut/traducnte)?
Comparative tests	Revolve	• Can they present a report			
Conclusions	Rotate/rotation	of their findings through	💷 use the idea of the		
Controlled variable	Saturn	writing, display and	Earth's rotation to explain		
	Solar system	presentation?	day and night and the		
Data loggers	Sphere/spherical		apparent movement of the		
Data/evidence/results	Spin	<u>Obtaining and presenting</u>	sun across the sky.		
Decrease	Sun Venus	evidence			
Degree of trust		• Can they take			
Dependent variable		measurements using a range	Forces and Magnets		
Differences		of scientific equipment with			
Equipment		increasing accuracy and	Dexplain that unsupported		
Evidence		precision?	objects fall towards the Earth because of the force		
Fair tests		• Can they take repeat	of gravity acting between		
		readings when appropriate?	the Earth and the falling		
Forces and magnets			object		
		 Can they record more 	00/001		
		complex data and results	Didentify the effects of air		
		using scientific diagrams,	resistance, water resistance		
		labels, classification keys,	and friction, that act		
		tables, scatter graphs, bar	between moving surfaces		
		and line graphs?	-		





	Air resistance Attract Earth Fall Force Friction Gears Gravity Levers Magnet Magnett Magneti Moving surfaces Pulleys Transfers Water resistance	Considering evidence and evaluating • Can they report and present findings from enquiries through written explanations and conclusions? • Can they use a graph to answer scientific questions?	OPrecognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.		
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Conina	Reversible changes	(Continuing to build on from	Everyday materials/ use of	Maths - Tables and charts	What size wing makes
Spring	Rigid	Autumn term)	everyday materials/	to present data. Venn	the best paper
Gather	Rough		properties and changes of	diagram to sort.	sycamore helicopter?
Group	Rusting	<u>Planning</u>	materials		
Identify	Sieving	 Can they plan and carry out 		English-Science	What is the best material to make a
Increase	Smooth	a scientific enquiry to answer	ODcompare and group together everyday materials	investigation write up.	parachute out of?
Independent variable	Soft	questions, including	on the basis of their		
Keys	Solid	recognising and controlling	properties, including their		
Line graphs	Solubility	variables where necessary?	hardness, solubility,		Where do you find
Link	Soluble	 Can they make a prediction 	transparency, conductivity		gears in the real world?
Magnifying glass	Solute	with reasons?	(electrical and thermal), and		How much sugar can be
Measure	Solution		response to magnets		dissolved in a cup of
Microscope	Solvent	• Can they use test results to	00know that some materials		water? (How sweet can
Notice patterns	States of matter	make predictions to set up comparative and fair tests?	will dissolve in liquid to form		you make your tea?)
Observations	Stretchy	comparative and fair tests?	a solution, and describe how		
Observe changes over time	Strong/weak	\cdot Can they present a report	to recover a substance from		What material is best
Order	Thermal conductivity	of their findings through	a solution		for making a coat?
Precision	Translucent	writing, display and			Which of the following
Prediction	Transparent	presentation?	Oluse knowledge of solids,		experiments (give some
Present	Waterproof	Obtaining and presenting	liquids and gases to decide		reversible and some
Questions		evidence	how mixtures might be separated, including through		irreversible) can be
Questions		• Can they take	filtering, sieving and		reversed?
Record		measurements using a range	evaporating		How can you get the
Results		of scientific equipment with	e apor annig		salt back from the
		increasing accuracy and	IIgive reasons, based on		water?
		precision?	evidence from comparative		
		\cdot Can they take repeat	and fair tests, for the		What amount of
		readings when appropriate?	particular uses of everyday		vinegar/bicarbonate of
			materials, including metals,		soda best inflates the balloon?
		 Can they record more 	wood and plastic		bulloon?
		complex data and results			Which material is the
		complex data and results			Which material is the



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	labels, c tables, s and line • Can th present enquirie explana • Can th	cientific diagrams, classification keys, scatter graphs, bar e graphs? idering evidence and evaluating hey report and t findings from es through written ations and conclusions? hey use a graph to scientific questions?	 Indemonstrate that dissolving, mixing and changes of state are reversible changes Interversible changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda. 		best thermal insulator? How can we separate these mixtures? Which material is the most soluble? How can we make the sugar dissolve faster? Which material would make the best flask? How can we make the water clean?
Summer	• Can th a scient question recognis variable	n and Spring term) <u>Planning</u> hey plan and carry out tific enquiry to answer ons, including ising and controlling es where necessary? hey make a prediction easons?	Animals Including Humans Constant of the changes as humans develop to old age. Living Things and Their Habitats Constant of the differences in the life cycles of a mammal, an amphibian, an insect and a bird	English - Non information text about the life process of reproduction.	How does the body change as we grow older? Why does the body change? Is it good or bad? What changes do you think will happen to you in the future? What stages are there in the life cycles of





ullet Can they use test results to	IDdescribe the life process	plants?
make predictions to set up	of reproduction in some	
comparative and fair tests?	plants and animals.	What happens during
		pollination?
• Can they present a report		
of their findings through		Do all flowering plants
writing, display and		disperse their seeds in
presentation?		the same way?
Obtaining and presenting		
evidence		
\cdot Can they take		
measurements using a range		
of scientific equipment with		
increasing accuracy and		
precision?		
 Can they take repeat 		
readings when appropriate?		
 Can they record more 		
complex data and results		
using scientific diagrams,		
labels, classification keys,		
tables, scatter graphs, bar		
and line graphs?		
Considering evidence and		
<u>evaluating</u>		
• Can they report and		
present findings from		
enquiries through written		
explanations and conclusions?		
\cdot Can they use a graph to		
answer scientific questions?		



