Science Year Planner Year 5

Term	Autumn 1	Autumn 2	Spring 2	Summer 1	Summer 2
Topic or Stand- Alone?	Торіс	Stand Alone link to History – WW2	Stand alone 2xSLDs	Stand Alone	Stand Alone links to PSHE
Enquiry Questions:	What is Space? Does the drop height of a meteor affect the size of the crater?	What is a force? Can I make a safer parachute?	Are all changes permanent? Which cup will keep Miss Goatman's coffee warmest the longest?	Do all living things have	the same Life cycle?
Science Knowledge NC Focus	Earth and Space	Forces	Properties of materials	Living things and their ha Animals inc. humans Unit	ıbitats Unit
Working Scientifically NC Focus:	 planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary taking measurements (breadth of crater), using a range of scientific equipment, with increasing accuracy and precision, 	 planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary taking measurements (<u>time; Newtons</u>), using a range of scientific equipment (stopwatch, Newton meter), with increasing accuracy and precision, taking 	 planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary taking measurements (temp), using a range of scientific equipment (thermometer), with increasing accuracy and precision. 	 recording data and result using scientific diagrams of PLUS: Paradise Pastures project need to evaluate it once finish change timings for 2021/22 Own questions e.g. do stinging do some places have more do types of soils? 	s of increasing complexity and labels. It with Eden Project but ned this year. Possibly g nettles sting insects? Why aisies? Are there different

	 recording data and results of increasing complexity using scientific diagrams and labels, tables, scatter graphs, using test results to make predictions to set up further comparative and fair tests reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, written forms such as displays and other presentations identifying scientific evidence that has been used to support or refute ideas or arguments. 	 repeat readings when appropriate recording data and results of increasing complexity using scientific diagrams and labels tables bar graphs using test results to make predictions to set up further comparative and fair tests reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of written forms such as displays and other presentations 	 recording data and results of increasing complexity using classification keys, tables line graphs reporting and presenting findings from enquiries, including conclusions, in written forms such as displays and other presentations 	 planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate recording data and results of increasing complexity using scientific diagrams and labels, classification keys*, tables⁷ *They use classification keys, but don't make them. using test results to make predictions to set up further comparative and fair tests reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations identifying scientific evidence that has been used to support or refute ideas or arguments.
Sequence of lessons	L1 What is at the centre of the Solar System? The Earth orbits the sun and rotates on an axis. L2 are all planets the same? I know there are rocky planets and gas	L1 What do you already know about forces? L2 Using a Newton meter and drawing a graph. L3 Friction: which surfaces have more/less friction? Can I change friction? How	L1 Grouping everyday items based on their properties – solid, liquid, transparent, magnetic, soft, soluble. Intro. Classification keys.	L1 What is a lifecycle? L2 Are all lifecycles the same? L3 Do all living things reproduce in the same way? Bird vs mammal vs insect vs amphibian L4+5 Presenting findings

Vocabulary:universepull pushsolidlife cycleaxisnaxisNewton metersieveinfantplanetsrictionsolubleteenagercrescentforceliquidoffspringdayforcemagnet/magnetismchangesorbitreproducereproduce	
heliocentricmassgaschildphasesgravitymixture solutionadultsphericalaerodynamicflexiblematingnightleversseparateembryospinair resistanceheatbaby	vocabulary:

gibbous	thermal conductor	elderly
constellation	evaporation	egg
	change	sexual/asexual
	thermal insulator	reproduction
	reversible	pollination
	filter	fertilisation
	dissolve	germination
	irreversible	biodiversity