



Skills	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	1			-			
enquiry	Show curiosity about objects, events and people (P & E). Engage in open-ended activity (P & E.) Take a risk, engage in new experiences and learn by trial and error (P&E.) Find ways to solve problems/find new ways to do things/test their ideas (C & TC.) Develop ideas of grouping, sequences, cause and effect (C & TC). Develop ideas of grouping, sequences, cause and effect (C & TC) Know about similarities and differences in relation to places, objects, materials and living things (ELG: The World). Use senses to explore the world around them (Playing & Exploring). Make links and notice patterns in their	and raise their of questions. Experience diffe science enquiri practical activiti Begin to recogr in which they m scientific questi Carry out simpl Use simple feat objects, materia and, with help, and group them classifying). Ask people que simple seconda answers. Observe closely equipment. With help, obset time. With guidance, to notice pattern relationships. Use simple mea equipment (eg timers) to gathe Record simple Use their obser to suggest answ	erent types of es, including es. hise different ways hight answer ions. e tests. tures to compare als and living things decide how to sort in (Identifying and estions and use ary sources to find y using simple erve changes over they should begin ins and asurements and hand lenses, egg er data.	might help them to ans cannot be answered the investigations. Make systematic and of Help to make decision observations to make, for and the type of sime be used. Begin to look for nature and relationships and collect to identify them	ge of scientific different types of nswer questions. In decisions about the of scientific enquiry ver questions. I enquiries, and ests. now secondary sources swer questions that nough practical careful observations. Is about what how long to make them ple equipment that may ally occurring patterns decide what data to mements using standard nge of (new) ita loggers / iately. a from their own ements in a variety of s and tables, standard ad diagrams, keys and	and raise different Talk about how so developed over tin Select and plan th scientific enquiry t questions. Recognise when a comparative and f variables need to f Use and develop f records to identify things and materia might be found in Recognise which s most useful to rese to separate opinio Make their own de observations to ma use and how long Look for different of data and identify e supports their idea Choose the most a make measureme and explain how to Take repeat meas appropriate. Decide how to reco increasing comple approaches: scient	e most appropriate type of o use to answer scientific and how to set up air tests and explain which be controlled and why. keys and other information , classify and describe living als, and identify patterns that the natural environment. secondary sources will be earch their ideas and begin n from fact. ecisions about what ake, what measurements to to make them for. causal relationships in their evidence that refutes or as. appropriate equipment to nts with increasing precision o use it accurately.





Skills	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	experience (creative & Thinking Critically) Choose the resources they need for their chosen activities (Self Confidence & Self Awareness) Develop their own narratives and explanations by connecting ideas or events (Speaking). Builds up vocabulary that reflects the breadth of their experience (Understanding 30- 50m)	communicate th	should record and heir findings in a and begin to use	this data. With help, pupils shoul patterns, similarities ar data in order to draw s answer questions. Use relevant simple so discuss their ideas and findings in ways that an different audiences, ind explanations, displays results and conclusions With support, they sho questions arising from predictions for new val data they have collected improving what they ha	ad differences in their imple conclusions and ientific language to communicate their re appropriate for cluding oral and written or presentations of s. uld identify new the data, making ues within/beyond the ed and finding ways of	to support or refute Use relevant scient illustrations to disc justify their scientify written forms such presentations to re relationships and e trust in results. Use their results to identify when furth	cuss, communicate and fic ideas, use oral and as displays and other eport conclusions, causal explanations of degree of o make predictions and
Working scientificall y	Handle equipment and tools effectively (Moving & Handling)	Pupils should be following practic methods, proce		Pupils should be taugh practical scientific meth skills through the teach	nods, processes and	practical scientific	aught to use the following methods, processes and eaching of the programme





Skills	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		Year 1Year 2through the teaching of the programme of study content: -asking simple questions and recognising that they can be answered in different ways; -observing closely, using simple equipment; -performing simple tests; -identifying and classifying; -using their observations and ideas to suggest answers to questions; -gathering and recording data to help in answering questions.		of study content: -asking relevant questions and using different types of scientific enquiries to answer them; -setting up simple practical enquiries, comparative and fair tests; -making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers; -gathering, recording, classifying and presenting data in a variety of ways to help in answering questions; -recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables; -reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions; -using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions; -identifying differences, similarities or changes related to simple scientific ideas and processes; -using straightforward scientific evidence to answer questions or to support their findings.		to answer question controlling variable -taking measurem scientific equipme and precision, taki appropriate; -recording data an complexity using s labels, classification graphs, bar and lin -using test results up further compar- -reporting and pre enquiries, includin relationships and of trust in results, such as displays a -identifying scienti	types of scientific enquiries ns, including recognising and es where necessary; ents, using a range of nt, with increasing accuracy ng repeat readings when d results of increasing scientific diagrams and on keys, tables, scatter ne graphs; to make predictions to set ative and fair tests; senting findings from g conclusions, causal explanations of and a degree in oral and written forms and other presentations; fic evidence that has been refute ideas or arguments.
Asking questions and	Questions why things happen. (Speaking 30- 50m)	Asking simple of recognising that answered in dif	it they can be	Asking relevant questi types of scientific enqu Setting up simple prac		to answer question	types of scientific enquiries ns, including recognising and es where necessary.





Skills	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
carrying out fair and comparativ es	Answer how and why questions about their experiences (Understanding). Comments and asks questions about aspects of their familiar world such as the place where they live or the natural world (The World).	Performing sim Children can: -explore the wo leading them to scientific questi why things hap -begin to recog they might answ questions; -ask people que simple seconda answers; -carry out simple using simple ec -experience diff scientific enquin practical activiti -talk about the a tests they are w	ple tests. orld around them, o ask some simple ions about how and pen; nise ways in which wer scientific estions and use ary sources to find le practical tests, quipment; ferent types of ries, including	comparative and fair te Children can: -start to raise their own about the world around range of scientific expe -start to make their ow most appropriate type they might use to answ -recognise when a fair -Help decide how to se decisions about what of how long to make their simple equipment that	ests. n relevant questions d them in response to a eriences; n decisions about the of scientific enquiry ver questions; test is necessary; et up a fair test, making observations to make, n for and the type of	Using test results further comparativ Children can: -with growing inder relevant questions them in response experiences; -with increasing in own decisions abo of scientific enquir questions; -explore and talk a different kinds of s -ask their own que phenomena; -select and plan th scientific enquiry t questions; -make their own d observations to ma use and how long whether to repeat -plan, set up and of fair tests to answe recognising and con necessary; -use their test result tests and observations	to make predictions to set up re and fair tests. ependence, raise their own a about the world around to a range of scientific dependence, make their but the most appropriate type y they might use to answer about their ideas, raising scientific questions; estions about scientific ne most appropriate type of o use to answer scientific ecisions about what ake, what measurements to to make them for, and





Skills	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Observing and measuring changes	Closely observes what animals, people and vehicles do (The World 8-20m). Make observations of animals and plants and explain why some things occur, and talk about changes (The World)	equipment. Children can: -observe the na constructed wor -observe chang	asurements and bservations, g equipment to	Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers. Children can: -make systematic and careful observations; -observe changes over time -use a range of equipment, including thermometers and data loggers; -ask their own questions about what they observe -where appropriate take measurements using standard units using a range of equipment.		Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers. Children can: -choose the most appropriate equipment to make measurements and explain how to use it accurately; -choose the most appropriate equipment to make measurements and explain how to use it accurately; -take repeat readings when appropriate; -understand why we take an average in repeat readings.	
Identifying, classifying, recording and presenting	Create simple representations of events, people and objects. (Being Imaginative 40-60m)	help in answerir Children can:	recording data to ng questions. tures to compare als and living	Gathering, recording, or presenting data in a var answering questions. Recording findings usin language, drawings, la bar charts, and tables. Children can:	riety of ways to help in ng simple scientific	complexity using s labels, classification graphs, bar and lin Children can:	oup, classify and describe





Skills	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		living things; -decide how to objects into sim some help;deci classify objects with some help -record and cor in a range of wa support;record findings in a ran support; -sort, group, ga data in a variety answering ques simple sorting of pictograms, tall diagrams and s group, gather a variety of ways	nmunicate findings ays with and communicate nge of ways with ther and record y of ways to help in stions such as in diagrams, y charts, block simple tables.sort, nd record data in a to help in stions such as in diagrams, y charts, block	scientific vocabulary co confidence, using their and spelling knowledg -Record findings using	riteria for grouping, ngs ientific vocabulary idence, using their and use, read and spell prrectly and with growing word reading e;	records to identify things and materia -independently gri- living things and r -record data and r complexity using s labels, classification graphs, bar graph data and results c scientific diagrams	oup, classify and describe