## Progression of Skills – Science

	National Curriculum Aims					
and Munasers Brag	<ul> <li>develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics</li> <li>develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them</li> <li>are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future</li> <li>Curriculum Enhancements</li> <li>Science Days throughout year, British Science Week (March), Sublime Science visit, Forest School sessions</li> </ul>					
Skill	Nursery (30-50)	Reception (40-60) bold ELG	Year 1	Year 2		
Planning and Predicting Creating and thinking criticallyHaving their own ideas- thinking of ideas; finding ways to solve problems; finding new ways to do thingsMaking predictionsPlanning making decisions about how to solve a problem and reach a goal	Comment and ask questions about aspects of their familiar world e.g. the place where they live, or the natural world.	Question why things happen Have their own ideas	Ask simple questions when prompted- Why are flowers different colours? Why do some animals eat meat and some do not? Suggest ways of answering a question	Ask simple questions e.g. Why do some trees lose their leaves in autumn? How long are roots of tall trees? Which material is best at absorbing water? Recognise that questions can be answered in different ways		
Conducting Experiments Testing their ideas Children use everyday language as they explore. They explore	Observe the effects of physical activity on their bodies	Use equipment and tools carefully Use their range of senses and look closely	Make relevant observations Conduct simple tests, with support	Observe closely using simple equipment such as thermometers, rain gauges, microscopes, bug viewers, pipettes		
characteristics of everyday objects. Children safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.			Set up a fair test, know if the test has been successful, say what has been learned through discussion and apply scientific vocabulary	Measure carefully Perform simple tests		

				Know how to set up a fair test
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Recording Evidence	Talk about things they have	Talk about science situations	With prompting, suggest how	Gather and record data to help
Developing ideas of grouping,	observed e.g. plants, animals,	such as ways to keep healthy	findings could be recorded.	answer questions using tables,
sequencing, cause & effect	natural & found objects	and safe, know the importance		tally charts, drawings
Children represent their own	To show care and concern for	of physical exercise for good health, how to keep healthy	Use scientific vocabulary and refer to evidence in discussions	Communicate their findings in
ideas, thoughts and feelings	living things and the	and safe		Communicate their findings in a range of ways and begin to
through design & technology, art,	environment		Gather and record data-	use simple scientific language
music, dance, role play and stories	environment	Create simple representations	pictograms, labelled diagrams,	use simple scientific language
		of people and objects	summative sentence, a "what	
			went well" sentence	
Reporting Findings	Show interest in and describe	Notice similarities and	Recognise findings	Identify and classify
Making links and noticing patterns	the texture of things	differences	heeognise mangs	Classify a group of things
Making links and noticing patterns			Use observations to suggest	according to a given criteria e.g.
Speaking- uses talk to organise,	Talk about why things happen	Look closely at similarities,	answers to questions	deciduous and coniferous trees
sequence and clarify thinking and	and how things work	differences, patterns and		
ideas		change	Notice similarities and	Discuss understanding of
	Develop an understanding of		differences	findings using <i>because, if, so,</i>
Make observations about plants &	growth, decay and changes	Know about similarities and		and in line with Yr2 English
animals and explain why some things occur. Talk about changes	over time	differences in relation to	Identify and classify with	expectations to articulate their
things occur. Talk about changes		places, objects, materials and	support	findings
		living things		
Concluding	Starting to formulate their own	Have their own ideas about	Use observations to suggest	Use their observations and
Checking how well their activities	ideas about what has happened	what happened and why	answers to questions	ideas to suggest answers to
are going	and why			questions
		Agree or disagree with the	Explain to someone else what	
Change strategy as needed		ideas expressed by others	has been learned from an	Draw conclusions from a fair
Deview how well the energiesh			investigation they have been	test and explain what has been
Review how well the approach worked			involved with and draw simple	found out
Worked			conclusions	
Listen and respond to ideas				Use writing frameworks to
expressed by others			Use writing frameworks to	improve quality of written
			write sentences about their	conclusions and correct
Discuss similarities and differences			findings	application of scientific
between living things, objects and				language
materials				
Vocabulary				