



SCIENCE WORKING SCIENTIFICALLY SKILLS PROGRESSION

	RECEPTION	YEAR 1	YEAR 2
  Observing and measuring Using Equipment	• General sensory observations of animals and plants • Simple descriptions of the world around them • Measure by direct comparison • Non-standard units of measurement • Simple comparative vocabulary –bigger, smaller	• Observe closely (using simple equipment – see below) • Use simple measurements and equipment to gather data (eg hand lenses, egg timers)	• Observe closely, including changes over time (using simple equipment – see below) • Select most appropriate measurement and equipment • Use a variety of standard, as well as non-standard, units of measurement. • Use scientific vocabulary to aid measurement
  Asking Questions	• Asks questions about aspects of their familiar world • Looking at objects and pictures and discussing what they can see	• Ask simple questions and recognise they can be answered in different ways • Use simple secondary sources to find answers	• Ask simple questions and recognise they can be answered in different ways, including use of scientific language from NC • Use simple secondary sources to find answers and inform discussion and decision making
 Identifying and Classifying	• Develop ideas of grouping, links and notices patterns in their experiences	• Identify and classify • With help, begin to notice patterns and relationships	• Identify, group and classify • Begin to notice patterns and relationships
 Planning/ setting up enquiries	• Begin to generate a variety of ideas for testing (not always realistic/appropriate) • Simple guess - what might happen?	• Identify an appropriate approach to answer a set question • Make simple predictions • Recognise different ways to answer a question	• Beginning to refine ideas – only changing one factor • Make simple predictions • Recognise different ways to answer a question

  Performing Tests	• Find ways to solve problems and test their ideas • Carry out simple investigations	• Perform simple tests	• Perform simple comparative tests
   Gathering, Recording and Communicating data & findings	• Talking about objects and events • Simple recording – pictures/images • Noticing ‘which worked best’ – simple comparative statements • Explain why something happened	• Gather and record data to help in answering questions • With help, communicate his/her ideas, what he/she does and what he/she finds out in a variety of ways • Identifying how their investigation worked – what worked well, what didn’t? • Notice anything that affected results i.e. changes in temperature etc. • Use his/her observations and ideas to suggest answer to questions	• Gather and record data to help in answering questions including from secondary sources of information • Communicate his/her ideas, what he/she does and what he/she finds out in a variety of ways • Suggest how to improve experiment. Identify if it was effective and link to scientific knowledge • What have we learnt from investigation? • Use his/her observations and ideas to suggest answer to questions noticing similarities, differences and patterns