Working scientifically progression Nursery, Reception and Year 1 and 2

Nursery	Reception	Year 1 and 2
Asking questions and recognising they can be answered in different ways		
Understand'why' questions, like: "Why do you think the caterpillar got so fat?" (C&L)	Ask questions to find out more and to check they understand what has been said to them. (C&L)	Asking simple questions and recognising that they can be answered in different ways
Making observations and taking measurements and engaging in practical enquiry to answer questions		
Use all their senses in hands-on exploration of natural materials. (UTW) Explore how things work. (UTW) Use one-handed tools and equipment. (PD) Choose the right resources to carry out their own plan.(PD) Make comparisons between objects relating to size,length, weight and capacity. (M) Compare quantities using language: 'more than', 'fewer than'. (M) Select and use activities and resources, with help when needed. This helps them to achieve a goal they have chosen, or one which is suggested to them. (PSED)	Explore the natural world around them. (UTW) Describe what they see, hear and feel whilst outside.(UTW) Develop their small motor skills so that they can use a range of tools competently, safely and confidently. (PD) Count objects, actions and sounds. (M) Use talk to help work out problems and organise thinking and activities, and to explain how things work and why they might happen. (C&L) Show resilience and perseverance in the face of challenge. (PSED)	Observing closely, using simple equipment performing simple tests identifying and classifying

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<table>
<tr><th colspan="3">Reporting and presenting evidence</th></tr>
<tr><td colspan="2">Record observations by drawing, taking photographs, using sorting rings or boxes or simple tick sheet</td><td rowspan="2">Gathering and recording data to help in answering questions</td></tr>
<tr><td>Talk about what they see, using a wide vocabulary (UTW)
Create closed shapes with continuous lines, and begin to use these shapes to represent objects. (UTW)
Draw with increasing complexity and detail, such as representing a face with a circle and including details. (UTW)</td><td>Connect one idea or action to another using a range of connectives. (C&L)
Describe events in some detail. (C&L)</td></tr>
<tr><th colspan="3">Answering questions and concluding</th></tr>
<tr><td>Make comparisons between objects relating to size, length, weight and capacity. (M)
Compare quantities using language: ‘more than’, ‘fewer than’. (M)</td><td>Listen to and talk about selected non-fiction to develop a deep familiarity with new knowledge and vocabulary. (C&L)
Connect one idea or action to another using a range of connectives. (C&L)
Describe events in some detail.(C&L)
Compare length, weight and capacity. (M)</td><td>Using their observations and ideas to suggest answers to questions</td></tr>
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