## Great Ellingham and Rocklands Primary Schools

Great Ellingham Science Skills Progression Map





| Planning & Predicting-pupils should be taught to:  |  |             |   |   |  |  |  |  |
|--|--|-------------|---|---|--|--|--|--|
| Class 1  | Class 2  | Class 3 Yr2 | Class 3 Yr3   | Class 4   | Class 5  | Class 6  |  |  |
| Reception Explore the natural world around them. Begin to make predictions and ask questions.  Experience different types of scientific practical activities | Year 1 & 2 Can ask simple questions  Recognises that questions can be answered in different ways  Experience different types of scientific enquiries, including practical activities;  Talk about the aim of scientific tests they are working on. |             | Year 3 & 4 Ask relevant questions types of scientific engineer them  Set up simple practice including comparative making decisions abordservations to make, them for and the type equipment that might recognise when a simple necessary.  Talk about criteria for and classifying; | uiries to answer  ul enquiries, e and fair tests, ut what , how long to make e of simple to be used; ple fair test is | Year 5 & 6 Ask their own question phenomena  Plan different types of to answer questions, recognising and control where necessary  Make their own decisions observations to make measurements to use make them for, and withem;  Choose the most appropriate make measurements of use it accurately; | f scientific enquiries including olling variables  ons about what what and how long to whether to repeat |  |  |

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| Observing & Measuring- pupils should be taught to:  |   |  |   |   |   |  |  |  |
|---|---|--|---|---|---|--|--|--|
| Class 1   | Class 2   | Class 3 Yr2  | Class 3 Yr3   | Class 4   | Class 5   | Class 6  |  |  |
| Class 1  Describe what they see, hear and feel whilst outside.  Make observations and drawing pictures of animals and plants.  Explore different materials freely, to develop their ideas about how to use them and what to make.  Join different materials and explore different textures. | Year 1 & 2 Observe closely, usin (e.g. magnifier) to go Perform simple tests Record simple data, Identify and classify features to compare and living things and how to sort and ground Gather and record do ways to help in answ such as in simple sor | g simple equipment ather data  using simple objects, materials d, with help, decide up them.  uta in a variety of vering questions ting diagrams, s, tally charts, block | Class 3 Yr3 Year 3 & 4 Make systematic and where appropriate, tal measurements using s a range of equipment, thermometers and dat Gather, record, classif in a variety of ways to answering questions Record findings using language, drawings a diagrams, keys, bar classifications. | careful observations, king accurate standard units, using including a loggers by and present data of help in simple scientific and labelled | Year 5 & 6  Take measurements, scientific equipment, accuracy and precision readings when appro | using a range of with increasing on, taking repeat priate  data from a choice of ults of increasing entific diagrams and keys, tables, scatter |  |  |

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|  |  |                     |  |  | School   |                       |  |  |
|--|--|---------------------|--|--|--|-----------------------|--|--|
| Concluding & Evaluating- pupils should be taught to: |  |                     |  |  |  |                       |  |  |
| Class 1  | Class 2  | Class 3 Yr2         | Class 3 Yr3  | Class 4                                  | Class 5  | Class 6               |  |  |
| Know some similarities and                           | Year 1 & 2   |                     | Year 3 & 4   |  | Year 5 & 6   |                       |  |  |
| differences between the natural world                | Use their observations and ideas to  |                     | Report on findings from enquiries,   |  | Report and present findings from   |                       |  |  |
| around them and contrasting                          | suggest answers to questions.  |                     | including oral and written explanations,   |  | enquiries, including conclusions, causal                                       |                       |  |  |
| environments, drawing on their                       |  |                     | displays or presentations of results and   |  | relationships and explanations of and a  |                       |  |  |
| experiences and what has been read                   | Begin to draw simple conclusions   |                     | conclusions  |  | degree of trust in results, in oral and  |                       |  |  |
| in class   |  |                     |  | written forms such as displays and other |  |                       |  |  |
|  | Observe changes over time,   |                     | Use results to draw simple conclusions   |  | presentations;   |                       |  |  |
| Understand some important processes                  | and, with guidance, begin to notice  |                     | and make predictions for new values  |  | -1   |                       |  |  |
| and changes in the natural world                     | patterns and relationships.  |                     | suggest improvements and raise further   |  | Identify scientific evidence that has been                                     |                       |  |  |
| around them, including the seasons                   |  | questions           |  |  | used to support or refute ideas or   |                       |  |  |
| and changing states of matter.                       | Ask people questions and use simple  |                     | T-1  |  | arguments.   |                       |  |  |
|  | secondary sources to find answers.   |                     | Identify differences, similarities or changes related to simple scientific ideas and |  | Use test results to make predictions to set                                    |                       |  |  |
|  | Talk about what they have found out  |                     | processes  |  | up further comparative and fair tests  |                       |  |  |
|  | and how they found it out.   |                     |  |  |  | -                     |  |  |
|  | With help, record and communicate  |                     | Begin to look for naturally occurring patterns and relationships and                 |  | Use relevant scientific language and illustrations to discuss, communicate and |                       |  |  |
|  |  |                     |  |  |  |                       |  |  |
|  | their findings in a range of ways and  |                     | decide what data to collect to identify  |  | justify their scientific ideas;  |                       |  |  |
|  | begin to use simple s  | scientific language | them   |  | read, spell and prono<br>vocabulary correctly                                  | unce scientific       |  |  |
|  | Poad, and, snall, scient   | ilic vacabularu at  | Use straightforward s  | scientilic evidence to                   | 1 - Canada y Corr Cody   |                       |  |  |
|  | Read and spell scientific vocabulary at a level consistent with their increasing |                     | answer questions or t  |  | Recognise where seco   | ndary sources will be |  |  |
|  | word reading and sp  | U                   | findings   | 1.1                                      | most useful to researc   |                       |  |  |
|  | key stage 1;   | tg is to trouge w   |  |  | separate opinion from  |                       |  |  |
|  | gg- 1  |                     | Use, read and spell so   | cientific vocabulary                     |  | •                     |  |  |
|  |  |                     | correctly and with co  |  | Talk about how scien   | tific ideas have      |  |  |
|  |  |                     | growing word reading spelling knowledge;   | g and                                    | developed overtime.  |                       |  |  |
|  |  |                     | specially in a village,  |  |  | · ·                   |  |  |