|                | Autumn 1   | Autumn 2                  | Spring 1                  | Spring 2                 | Summer 1               | Summer 2                              |  |  |
|----------------|--|---------------------------|---------------------------|--------------------------|------------------------|---------------------------------------|--|--|
| Birkrigg       | Introduce our  | Learn about               | Changing states of        | What animals lay         | Observing shadows      | Seasonal changes –                    |  |  |
|                | weather chart.   | animals – nocturnal       | matter – water and        | eggs?                    | – link to              | Summer.                               |  |  |
| Reception      | Senses walk around   | animals,                  | ice (investigation).      | Dinosaurs:               | The Night Pirates.     | Make observations                     |  |  |
|                | our school   | hibernation,              | Seasonal changes –        | Herbivores,              | Sorting materials –    | and learn about                       |  |  |
|                | grounds.   | camouflage.               | winter.                   | carnivores and           | link to pirate         | some minibeasts –                     |  |  |
|                | Life cycle of a bean.  | Hibernation               | Learn about a             | omnivores.               | treasure.              | Ladybirds and                         |  |  |
|                | Plant beans.   | investigation – how       | simple water cycle.       | Fossils.                 | Floating and           | snails.                               |  |  |
|                | Seasonal changes –   | animals keep              | Learn about               | Seasonal changes –       | sinking                | Animals in Australia                  |  |  |
|                | Autumn.  | warm.                     | underwater habitats       | Spring.                  | investigation –        | <ul> <li>different animals</li> </ul> |  |  |
|                | Explore our school   | Mammals and               | and creatures that        | Growth – life cycle      | different types of     | live in different                     |  |  |
|                | field. Begin to  | reptiles.                 | live there.               | of a hen.                | material that float    | habitats (linked to                   |  |  |
|                | observe changes.   | Changing states of        | Investigate how           |                          | or sink.               | Emma Jane's                           |  |  |
|                | Exploring  | matter – observing        | plants use water          |                          | Pirate sail            | Aeroplane).                           |  |  |
|                | vegetables.  | melting chocolate         | (celery                   |                          | investigation –        |                                       |  |  |
|                | Porridge   | (edible sparklers).       | investigation).           |                          | what material          |                                       |  |  |
|                | investigation.   | Baking <i>rainbow</i>     | Making <i>jelly</i> –     |                          | makes the best sail    |                                       |  |  |
|                | Baking gingerbread   | smarties cookies.         | observing changing        |                          | for a pirate boat?     |                                       |  |  |
|                | people, bread.   |                           | states.                   |                          |                        |                                       |  |  |
| Hoad           | Throughout the year  | r, children will be taugh | nt to use the following p | ractical scientific metl | nods, processes and sk | ills through the                      |  |  |
| Working        | teaching of the programme of study content:  |                           |                           |                          |                        |                                       |  |  |
| scientifically |  |                           |                           |                          |                        |                                       |  |  |
| Scientifically | asking simple questions and recognising that they can be answered in different ways    |                           |                           |                          |                        |                                       |  |  |
|                | observing closely, using simple equipment  |                           |                           |                          |                        |                                       |  |  |
|                | performing simple tests  |                           |                           |                          |                        |                                       |  |  |
|                | identifying and classifying  |                           |                           |                          |                        |                                       |  |  |
|                | <ul> <li>using their observations and ideas to suggest answers to questions</li> </ul> |                           |                           |                          |                        |                                       |  |  |
|                | <ul> <li>gathering and recording data to help in answering questions</li> </ul>        |                           |                           |                          |                        |                                       |  |  |
| Hoad           | Everyday   | Everyday                  | Animals, including        | Animals,                 | Plants. (Y1)           | Plants. (Y1)                          |  |  |
|                | materials. (Y1)  | materials. (Y1)           | humans. (Y1)              | including                | Identifying and        |                                       |  |  |
| Year 1/ 2      |  |                           |                           | humans. (Y1)             | naming common          |                                       |  |  |

| Cycle A        | Seasonal changes  | Seasonal changes  | Naming and         | Basic parts of      | plants, including | Structure of       |  |  |
|----------------|---|-------------------|--------------------|---------------------|-------------------|--------------------|--|--|
|                | – summer to   | – autumn to       | comparing          | human body and      | trees.            | flowering plants,  |  |  |
|                | autumn,   | winter, variation | animals, including | senses.             |                   | including trees.   |  |  |
|                | describing the  | in day length.    | different animal   |                     |                   |                    |  |  |
|                | weather.  |                   | groups and         | Seasonal            |                   | Seasonal changes,  |  |  |
|                |   |                   | carnivores,        | changes, winter     |                   | spring to summer.  |  |  |
|                |   |                   | herbivores and     | to spring.          |                   |                    |  |  |
|                |   |                   | omnivores.         |                     |                   |                    |  |  |
| Hoad           | Seasonal changes  | Senses            | Uses of everyday   | Plants. (Y2)        | Living things and | Animals,           |  |  |
|                | Senses  |                   | materials. (Y2)    | Particularly bulbs. | their habitats.   | including          |  |  |
| Year 1/ 2      | Thinking  |                   |                    | Animals,            | (Y2)              | humans. (Y2)       |  |  |
| Cycle B        | scientifically  |                   |                    | including           | Microhabitats,    | Healthy living and |  |  |
|                |   |                   |                    | humans. (Y2)        | simple food       | eating.            |  |  |
|                |   |                   |                    | Lifecycles,         | chains.           |                    |  |  |
|                |   |                   |                    | including humans    |                   | Summer.            |  |  |
|                |   |                   |                    | and their           |                   |                    |  |  |
|                |   |                   |                    | offspring.          |                   |                    |  |  |
|                |   |                   |                    |                     |                   |                    |  |  |
|                |   |                   |                    | What is spring?     |                   |                    |  |  |
| Newlands       | Throughout the year children will be taught to use the following practical scientific methods, processes and skills through the       |                   |                    |                     |                   |                    |  |  |
| Working        | teaching of the programme of study content:   |                   |                    |                     |                   |                    |  |  |
| scientifically |   |                   |                    |                     |                   |                    |  |  |
| ,              | 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.  |                              |   |                  |                                |                                |  |  |
|------------------------------------|--|------------------------------|---|------------------|--------------------------------|--------------------------------|--|--|
| Newlands                           | Rocks. (Y3)  | Rocks. (Y3)                  | Sound (Y4)  | Light (Y3)       | Living things and              | Living things and              |  |  |
| Year 3/4                           |  |                              |   |                  | their habitats.                | their habitats.                |  |  |
| Cycle A                            |  |                              |   |                  | (Y4)                           | (Y4)                           |  |  |
| Springfield Working scientifically | Throughout the year children will be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content:  • planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary  • taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate  • recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs  • using test results to make predictions to set up further comparative and fair tests  • reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations  • identifying scientific evidence that has been used to support or refute ideas or arguments |                              |   |                  |                                |                                |  |  |
| Newlands                           | Electricity. (Y4)  | Forces and                   | States of matter.   | Plants. (Y3)     | Animals including              | Animals including              |  |  |
| Year 3/4                           |  | magnets. (Y3)                | (Y4)  |                  | humans. (Y3 and                | humans. (Y3 and                |  |  |
| Cycle B                            |  |                              |   |                  | 4)                             | 4)                             |  |  |
| Springfield                        | Properties and   | Properties and               | Living things and   | Forces (Y5)      | Earth and space                | Animals,                       |  |  |
| Year 5/ 6 Cycle A                  | changes of<br>materials (Y5)   | changes of<br>materials (Y5) | their habitats (Y5)   |                  | (5))                           | including<br>humans. (Y5)      |  |  |
| Springfield Year 5/6 Cycle B       | Animals,<br>including humans<br>(Y6)   | Light (Y6)                   | Living things and<br>their habitats-<br>classification (Y6) | Electricity (Y6) | Evolution and inheritance (Y6) | Evolution and inheritance (Y6) |  |  |