

## Year 9 Spring term 1

Year 9 students are beginning to study towards their GCSEs in science now. They will start the GCSE with an introduction to the practical skills they require to complete Core Practicals successfully and will then go onto a foundational topic in biology. Next half term they will study foundational units in chemistry and physics.

### 9 North and South

|       | 02/01/2023<br>Bank Hol and Inset   | 09/01/2023 | 16/01/2023   | 23/01/2023 | 30/01/2023 | 06/02/2023 |
|-------|--|------------|--|------------|------------|------------|
|       | week 15  | week 16    | week 17  | week 18    | week 19    | week 20    |
| Topic | <b><u>Practical passport to GCSE (Working Scientifically)</u></b> <ol style="list-style-type: none"><li>1. How do I stay safe in the lab?</li><li>2. What apparatus will I be using?</li><li>3. How do I plan an investigation?</li><li>4. How do I carry out an investigation?</li><li>5. How do I analyse and evaluate an investigation?</li></ol> |            | <b><u>B1 – Key concepts in biology</u></b> <ol style="list-style-type: none"><li>1. How does a microscope work?</li><li>2. What is a cell?</li><li>3. What types of cells are there?</li><li>4. How are bacteria different to plant and animal cells?</li><li>5. Core Practical 1: Looking at Cells pt 1</li><li>6. Core Practical 1: Looking at Cells pt 2</li><li>7. How are enzymes linked to food?</li><li>8. How do enzymes work?</li><li>9. What affects how enzymes work?</li><li>10. Core Practical 2: pH and Enzymes pt 1</li><li>11. Core Practical 2: pH and Enzymes pt 2</li><li>12. How are substances transported around living organisms?</li><li>13. Core Practical 4: Osmosis in potato slices pt 1</li><li>14. Core Practical 4: Osmosis in potato slices pt 2</li></ol> |            |            |            |