

# High Tunstall College of Science Curriculum Intent

Subject: Physics Year: 9

## Thread 3 — Electricity



|             | Physics Thread 3—Electricity   | Progress |   |   |
|-------------|--|----------|---|---|
| Topic       | Key ideas  | R        | A | G |
| Electricity | I can state the components of a circuit and their function   |          |   |   |
|             | I can build series and parallel circuits explaining the difference between them.                                   |          |   |   |
|             | Pupils are introduced to $V=IR$ through practice calculations  |          |   |   |
|             | I can state the difference between AC and DC, giving examples in the home.   |          |   |   |
|             | Pupils look at the structure and function of the components in a plug.<br>Pupils look at how to wire a plug safely |          |   |   |

| Lesson | Learning Focus  | Assessment   | Key Words            |
|--------|---|--|----------------------|
| 1      | State the components of a circuit   | state the components of a circuit and their function | Circuit, Symbol      |
| 2      | Explain the difference between series and parallel circuits               | Compare and contrast series and parallel circuits    | Series , Parallel    |
| 3      | Use $V=IR$ to practice calculations                                       | Complete practice questions                          | Voltage, Current     |
| 4      | I can show resistance in a wire through practical work                    | Able to write method for practical                   | Resistance           |
| 5      | I can state the difference between AC and DC                              | Compare and contrast AC and DC                       | Alternating, Direct  |
| 6      | I can state the function of plug components and give examples in the home | Identify components of a plug and state function     | Live, Neutral, Earth |