

# Year 9 Science Learning Journey

### Careers links

- Doctor, dietician, geneticist, sports scientist, brewing
- Chemical engineer, pharmacist, environmental engineer, product designer, construction
- Electrician, heating and insulation technician, optician, audio-visual technician, vehicle designer

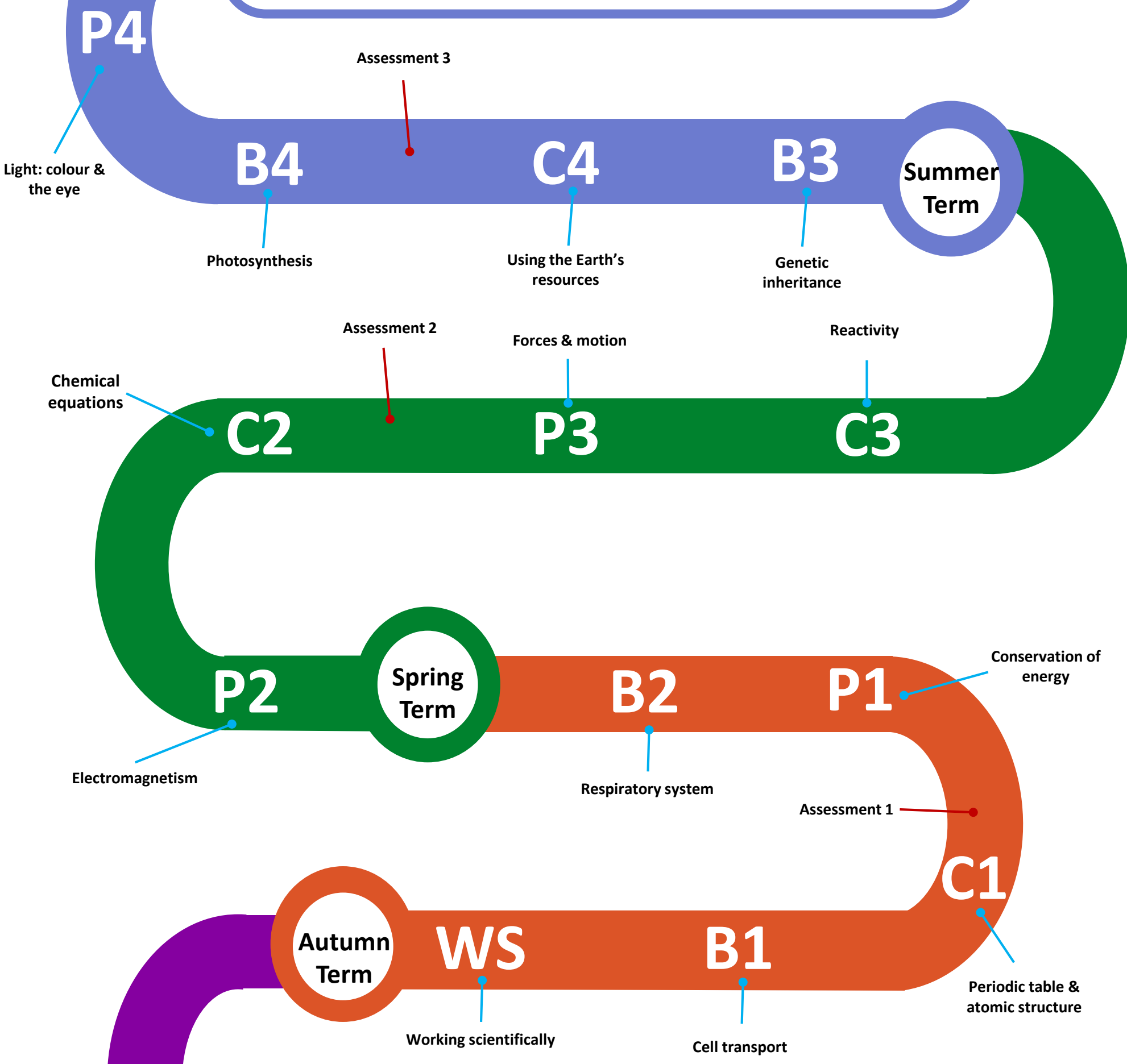
In year 10, GCSE paper 1 units:

- |                        |                       |
|------------------------|-----------------------|
| • Cells                | • energy              |
| • Organisation         | • Electricity         |
| • Infection & response | • Radioactivity       |
| • Bioenergetics        | • Atomic structure    |
| • Conservation of      | • Structure & Bonding |
|                        | • Chemical changes    |
|                        | • Energy changes      |

**What Next?**

### By the end of Year 9

- Use scientific knowledge, understanding and experiences to provide detailed explanations for scientific phenomena in both familiar and unfamiliar contexts.
- Evaluate data, showing awareness of potential sources of random and systematic error.
- Rearrange equations to calculate unknown quantities.
- Demonstrate objectivity and concern for accuracy, precision, and repeatability in scientific investigations.



### At the beginning of Year 9

- Demonstrate accurate knowledge and understanding of key scientific ideas and apply these correctly to familiar contexts, using accurate scientific terminology.
- Select, plan, and carry out the most appropriate types of scientific enquiries to test predictions.
- Decide how to record data of increasing complexity
- Interpret observations and data, including identifying patterns and using observations, measurements, and data to draw conclusions.

