Long Term Plan Subject: Combined Science Year: 10

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| **Term** | **Topic (s)**  **5 PERIOD TEACHER** | **Topic (s)**  **4 PERIOD TEACHER** | **Additional details** |
| Term 1 a  (7 weeks) | Photosynthesis  (Biology) 8 lessons  Electricity (Physics) 15 lessons | Review unit content from year 9 for: Cells, atomic structure and Energy | Biology required practical: effects of light intensity on the rate of photosynthesis  Physics required practicals: Resistance in a wire and current, voltage graphs  40 mark end of unit tests, including multiple choice question, short and extended answers |
| Term 1 b  (8 weeks) | Moving and changing materials  (Biology) 17 lessons | Structure, bonding and properties of matter  (Chemistry) 17 lessons |
| Term 2 a  ( 5 weeks) | Particle model of matter (Physics) 6 lessons  Health matters  (Biology)17 lessons | Chemical quantities and calculation  (Chemistry) 8 lessons | Chemistry required practical: preparing pure samples  Physics required practical:  Density of structures  40 mark end of unit tests, including multiple choice question, short and extended answers |
| Term 2 b  ( 6 weeks) | Chemical changes  (Chemistry) 14 lessons | Atomic structure  (Physics) 7 lessons |
| Term 3 a  (6 weeks) | Coordination and control  (Biology) 15 lessons  Forces  (Physics) 16 lessons | Energy changes  (Chemistry) 5 lessons | Biology required practical: investigating reaction time  Chemistry required practicals: limiting reactants and how concentration affects the rate of reaction  Physics required practical: acceleration of an object and Hooke`s law  40 mark end of unit tests, including multiple choice question, short and extended answers |
| Term 3 b  (\_weeks) | Rate and extent of chemical change  (Chemistry) 14 lessons | Genetics  (Biology) 9 lessons |

Notes: