Long Term Plan Subject: Combined Science Year: 11

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| **Term** | **Topic (s)**  **5 PERIOD TEACHER** | **Topic (s)**  **4 PERIOD TEACHER** | **Additional details** |
| Term 1 a  ( 7 weeks) | Chemical changes  (Chemistry) 13 lessons  Particle model of matter  (Physics) 6 lessons | Health matters  (Biology) 13 lessons | Required practicals for Chemistry units on:  Preparing a dry soluble sample and investigating electrolysis  40 mark end of unit tests, including multiple choice question, short and extended answers |
| Term 1 b  ( 8 weeks) | Energy changes  (Chemistry) 6 lessons | Atomic structure  (Physics) 7 lessons |
| Mock exams November | | | |
| Term 2 a  ( 5 weeks) | The rate and extent of chemical change  (chemistry) 13 lessons  Coordination and control  (Biology) 15 lessons | Forces  (Physics) 16 lessons | Required practicals for Chemistry units on: limiting reactants and how concentration affects a chemical reaction.  Biology required practical on: investigating reaction time  40 mark end of unit tests, including multiple choice question, short and extended answers |
| Term 2 b  ( 6 weeks) | Chemical analysis  (Chemistry) 5 lessons | Hydrocarbons  (Chemistry) 5 lessons |
| Mock exams February | | | |
| Term 3 a  ( 6 weeks) | The atmosphere and sustainable development  (Chemistry) 18 lessons  Waves  (Physics) 13 lessons | Genetics, variation and evolution  (Biology) 26 lessons | Required practicals for Biology: measuring population size of a habitat  Required practicals for Chemistry: analysis and purification of water  Required practical`s for Physics: measuring wavelength and investigating the reflection of light  40 mark end of unit tests, including multiple choice question, short and extended answers |
| Term 3 b  (\_weeks) | Ecology in action  (Biology) 15 lessons | Electromagnetism  (Physics) 6 lessons |

Notes: