

## Ralph Sadleir Science Faculty LTP 2017/2018

| Term          | Year 5  | Year 6                                      | Year 7                                | Year 8                    |
|---------------|---|---|---------------------------------------|---------------------------|
| <b>Autumn</b> | Lab safety  | Lab safety                                  | Lab safety                            | Lab safety                |
|               | Drawing apparatus   | Drawing apparatus                           | Drawing apparatus                     | Drawing apparatus         |
|               | Forces - Magnets<br>Forces – air resistance<br>Forces - gravity | Sampling techniques                         | Cells                                 | Sound and hearing         |
|               | Respiration / breathing /<br>circulation                        | Plant reproduction<br>Life cycles of plants | Acids and alkalis                     | Atoms and elements        |
|               | Dissolving  | Classification – Carl Linnaeus              | Food and digestion                    | Respiration               |
|               | Separation  | Electricity                                 | STEM day                              | Heating and cooling       |
|               |   |   | Solutions                             | Dissolving                |
|               |   |   | Magnets and<br>electromagnets         | Separation                |
|               |   |   | Skeletal and muscular<br>system       | Electricity – amps, volts |
|               |   |   |                                       |                           |
| <b>Spring</b> | SLG   | Light and shadows                           | Microbes and disease                  | Compounds and mixtures    |
|               | Materials   | Circulatory system                          | Health – drugs                        | Inheritance and selection |
|               | Burning<br>Irreversible   | Transportation around the<br>body           | Solar system and beyond               | Light                     |
|               | Reversible  | Diet and lifestyle                          | Simple reactions                      | Reproduction              |
|               | Food chains   | Lab safety                                  | Rocks and composition of<br>the Earth | Particle model            |
|               | Lab safety  |   | Lab safety                            | Lab safety                |
|               |   |   |                                       |                           |

|               |   |  |   |  |
|---------------|---|--|---|--|
|               |   |  |   |  |
| <b>Summer</b> | Evolution and inheritance<br>adaptation<br><br>Life cycle of insects, birds,<br>amphibians, a mammal<br>Human aging<br>Puberty<br><br>Earth and Space<br>Night and day – S, M, E<br>spherical | Evolution and inheritance<br><br>Fossils<br><br>Adaptation<br><br>Earth and Space<br><br>Forces<br><br>Rockets | Plants and photosynthesis<br><br>Forces and their effects<br><br>Static electricity<br><br>Ecology<br><br>Bioaccumulation, pyramid of<br>number | Reactions of metals and<br>patterns of reactivity<br><br>Pressure and movements<br><br>Space physics<br><br>Fit for life |

Colour code: - Green – Biology, Red – Chemistry, Blue – Physics, Orange - general, Lilac – workshop / GSK workshop