Morisset High School

**Scope and Sequence – Science 2017**

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| **YEAR**  **8** | **Weeks** | | | | | | | | | | |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** |
| **Term**  **1** |  | **Topic 1**: Living Together  **Outcomes:** LW1(f), LW2(c), LW3(a), LW5(a,b,d,e,f), ES4 (d)  **Key Concepts**   * Adaptations * Roles in Ecosystems * Energy transfers * Food chains * Food Webs   **Assessment Task 1 Notification -** Week 4  **Assessment Task 1 -** Research: Week 6 | | | | | **Topic 2**: Heating Up  **Outcomes:** PW3(a,b), PW4(a-c), WS4, WS5, WS6, WS7.  **Key Concepts**   * Scientific Method * Radiation of Heat * Conduction of Heat * Convection of Heat   **Assessment Task 2 Notification -** Week 9  **Assessment Task 2 –** First-hand Investigation: Week 11 | | | | |
| **Term**  **2** | Topic 3: Chemical Reactions  **Outcomes:** CW2(a,b,c,e,f), CW4  **Key Concepts**   * Elements and Compounds * Metals and Non-metals * Indicators of chemical reactions * Word equations   **Assessment Task 3 Notification -** Week 1  **Assessment Task 3 –** Knowledge and Problem-solving: Week 3\* | | | | | Topic 4: Charge!  **Outcomes:** PW1(a,c,), PW2(a-d), PW3(c-e), PW4  **Key Concepts**   * Electricity * Static Electricity * Fossil fuels * Renewable v’s Non-renewable fuels * Alternative energy sources   **Assessment Task 4 Notification -** Week 7  **Assessment Task 4 -** Research: Week 9 | | | | |  |
| **Term**  **3** | Topic 5: Materials for Everyone  **Outcomes:** ES3, CW3(c,d)  **Key Concepts**   * Mixtures * Natural materials * Man-made materials * Separation techniques * Practical application of separation techniques   **Assessment Task 5 Notification -** Week 3  **Assessment Task 5** – Practical and Problem-solving: Week 5 | | | | | Topic 6: Pushes and Pulls  **Outcomes:** PW1(a-e), PW2(a,e-i)  **Key Concepts**   * Changes caused by forces * Balanced and unbalanced forces * Contact and non-contact forces * Gravity * Friction * Magnets | | | | |  |
| **Term**  **4** | Topic 7: Inside Living things  **Outcomes:** LW3 (b-f), LW4 (a,d)  **Key Concepts**   * Animals: Digestive system, respiratory system, circulatory system, skeletal system and excretory system. * Plants: Seeds, roots, stem, leaves and photosynthesis   **Assessment Task 6 Notification -** Week 1  **Assessment Task 6 –** Written test: Week 3 | | | | | | | | | |  |

\*Subject to reporting timetable