![C:\Users\jenny.bennett6\Desktop\Flags_of_Australia[1].jpg]()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
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| **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