**Irrawang PS** 

**Early Stage One Scope and Sequence - Science and Technology**

**1.5 hours per week or equivalent**

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|  | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **Skills Focus** |
| **Term 1** | **Material World**STe-1WS-S, STe-2DP-T, STe-4MW-ST, STe-7DI-THow do the properties of materials affect their use?What are some of the observable properties of materials?How can living things be used to meet our needs? | Planning and conducting investigationsProcessing and analysing dataResearching and planningProducing and implementingTesting and evaluating |
| That’s my hat  |  |
| **Term 2** | **Earth and Space** STe-6ES-S, STe-7DI-THow do daily and seasonal changes affect the environment? \*\* How are digital technologies used in everyday life? | Questioning and predictingProcessing and analysing dataIdentifying and defining |
| Weather in My World |  |
| **Term 3** | **Physical World**STe-5PW-ST, STe-7DI-TWhat causes objects to move in different ways? \*\* How does following steps help to achieve a goal? | Questioning and predictingPlanning and conducting investigationsIdentifying and definingProducing and implementing |
| On the Move  |  |
| **Term 4** | **Living World** STe-3LW-ST, STe-7DI-TWhat do we notice about living things? | Planning and conducting investigationsProcessing and analysing dataResearching and planningProducing and implementing |
| Growing Well/Staying Alive |  |

**\*\* Digital Technologies integrated**

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| **ODD** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **Skills Focus** |
| **Term 1** | **Living World**ST1-4LW-S, ST1-1WS-S,What are the *external* features of living things? How do living things change as they grow? | Planning and conducting investigationsProcessing and analysing dataResearching and planningProducing and implementing |
| External Feature of living things & Living Things change (Watch it grow & *External Features*) |  |
| **Term 2** | **Material World**ST1-6MW-S, ST1-1WS-SWhat changes occur when materials are combined? | Questioning and predictingPlanning and conducting investigationsProducing and implementingTesting and evaluating |
| Materials can be combined and changed (All Mixed up) |  |
| **Term 3** | Physical WorldST1-9PW-ST,ST1-1WS-S,  ST1-2DP-THow are forces used for a purpose? | Processing and analysing dataCommunicatingResearching and planningProducing and implementing |
| Forces and Energy in products (Machine Makers & Push Pull) |  |
| **Term 4** | **Earth and Space**ST1-10ES-S, ST1-WS-SHow can we investigate the observable changes that occur in the sky and on the land?What are Earth’s resources and how do we use and care for the? | Planning and conducting investigationsProcessing and analysing dataIdentifying and defining |
| Changes in sky and on land (Up, down and all around & Changes all around) Earth’s Resources (water works! & *soil)* |  |



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| **EVEN** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **Skills Focus** |
| **Term 1** | **Digital Technologies**ST1-11DI-T, ST1-2DP-T, ST1-3DP-TWhat components might make up a digital system?What is data and how can we store and represent it?How can we record instructions for others to follow and understand? | Processing and analysing dataCommunicatingIdentifying and definingProducing and implementingTesting and evaluating |
|  |  |
| **Term 2** | **Living World**ST1-5LW-T, ST1-1WS-S, ST1-2DP-THow can we improve a local environment to encourage living things to thrive? How do humans use plants and animals? | Planning and conducting investigationsProcessing and analysing dataResearching and planningProducing and implementing |
| Living things live in different places & Plants and animals used for food and fibre (Schoolyard Safari & *food and fibre)* |  |
| **Term 3** | **Physical World**ST1-1WS-S, ST1-8PW-STWhat are the different forms of energy around us and how can we detect them? | Processing and analysing dataCommunicatingResearching and planningProducing and implementing |
| Energy comes in different forms that can be detected (Look! Listen! & *Heat and electricity*) |  |
| **Term 4** | **Material World**ST1-7MW-T, ST1-2DP-THow do the properties of materials determine their use? | Questioning and predictingPlanning and conducting investigationsProducing and implementingTesting and evaluating |
| Materials are used for a specific purpose (Bend it, Stretch it!) |  |

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**Stage Two Scope and Sequence - Science and Technology**

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| **ODD** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **Skills Focus** |
| **Term 1** | [**Material World**](https://educationstandards.nsw.edu.au/wps/portal/nesa/k-10/learning-areas/science/science-and-technology-k-6-new-syllabus/content/2780)ST2-6MW-S, ST2-1WS-SHow do materials change when heated and cooled? | Questioning and predictingPlanning and conducting investigationsResearching and PlanningProducing and implementing |
| Melting Moments |  |
| **Term 2** | [**Living World**](https://educationstandards.nsw.edu.au/wps/portal/nesa/k-10/learning-areas/science/science-and-technology-k-6-new-syllabus/content/2777)ST2-1WS-S, ST2-4LW-SWhat are the similarities and differences between the life cycles of living things?How are environments and living things interdependent? | Planning and conducting investigationsProcessing and analysing dataCommunicatingIdentifying and definingResearching and planning |
| Among the Gumtrees OR Friends and Foes |  |
| **Term 3** | [**Earth and Space**](https://educationstandards.nsw.edu.au/wps/portal/nesa/k-10/learning-areas/science/science-and-technology-k-6-new-syllabus/content/2786)ST2-10ES-S, ST2-1WS-SHow do natural processes and human actions change the Earth’s surface over time?What occurs as a result of the interactions between the Earth and the Sun? | Processing and analysing dataCommunicatingResearching and Planning |
| Beneath Our Feet or Night and Day |  |
| **Term 4** | [**Physical World**](https://educationstandards.nsw.edu.au/wps/portal/nesa/k-10/learning-areas/science/science-and-technology-k-6-new-syllabus/content/2783)ST2-9PW-ST, ST2-1WS-S, ST2-2DP-THow can objects affect other objects with or without touching them?How can we use forces and energy in a product or system? | Planning and conducting investigationsProcessing and analysing dataIdentifying and definingTesting and evaluating |
| Smooth Moves or Magnetic Moves |  |

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| **EVEN** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **Skills Focus** |
| **Term 1** | [**Digital Technologies**](https://educationstandards.nsw.edu.au/wps/portal/nesa/k-10/learning-areas/science/science-and-technology-k-6-new-syllabus/content/2789)ST2-11DI-T, ST2-2DP-T, ST2-3DP-THow do digital systems share information and instructions?Why do we represent data in different ways?How are algorithms used to develop digital systems? | Processing and analysing dataIdentifying and definingProducing and implementingTesting and evaluating |
|  |  |
| **Term 2** | [**Living World**](https://educationstandards.nsw.edu.au/wps/portal/nesa/k-10/learning-areas/science/science-and-technology-k-6-new-syllabus/content/2777)ST2-1WS-S, ST2-4LW-SHow do we create food and fibre products from animals and plants?How can we group living things? | Planning and conducting investigationsProcessing and analysing dataCommunicatingIdentifying and definingResearching and planning |
| Feathers, Fur or Leaves? |  |
| **Term 3** | [**Material World**](https://educationstandards.nsw.edu.au/wps/portal/nesa/k-10/learning-areas/science/science-and-technology-k-6-new-syllabus/content/2780)ST2-7MW-T, ST2-1WS-S, ST2-2DP-THow do you decide upon which material to use for a particular purpose? | Questioning and predictingPlanning and conducting investigationsResearching and PlanningProducing and implementing |
| Package it Better or Material World |  |
| **Term 4** | [**Physical World**](https://educationstandards.nsw.edu.au/wps/portal/nesa/k-10/learning-areas/science/science-and-technology-k-6-new-syllabus/content/2789)ST2-8PW-ST, ST2-1WS-SHow do light, heat and electrical energy make things happen? | Planning and conducting investigationsProcessing and analysing dataIdentifying and definingTesting and evaluating |
| Heating Up |  |

**Irrawang PS** 

**Stage Three Scope and Sequence - Science and Technology**

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| **ODD** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **Skills Focus** |
| **Term 1** | **Living World**ST3-4LW-S, ST3-1WS-S How do physical conditions affect the survival of living things?How do the structural and behavioural features of living things support survival? | Questioning and predictingPlanning and conducting investigationsProcessing and analysing dataIdentifying and definingResearching and Planning |
| Desert Survivors |  |
| **Term 2** | [**Physical World**](https://educationstandards.nsw.edu.au/wps/portal/nesa/k-10/learning-areas/science/science-and-technology-k-6-new-syllabus/content/2801)ST3-8PW-ST, ST3-1WS-SWhat types of energy transformations can be observed? | Questioning and predictingPlanning and conducting investigationsProcessing and analysing dataCommunicatingProducing and implementingTesting and evaluating |
| Light Shows |  |
| **Term 3** | [**Material World**](https://educationstandards.nsw.edu.au/wps/portal/nesa/k-10/learning-areas/science/science-and-technology-k-6-new-syllabus/content/2798)ST3-6MW-S, ST3-1WS-S How can the state of materials be changed and manipulated?What is the result of combining materials? | Questioning and predictingPlanning and conducting investigationsProcessing and analysing dataResearch and planningProducing and implementing |
| Change Detectives |  |
| **Term 4** | [**Earth and Space**](https://educationstandards.nsw.edu.au/wps/portal/nesa/k-10/learning-areas/science/science-and-technology-k-6-new-syllabus/content/2804)ST3-10ES-S, ST3-1WS-SHow do sudden geological changes and extreme weather events affect the Earth’s surface?How does the Earth compare to other planets in the solar system? | Processing and analysing dataCommunicatingResearching and planning |
| Earthquake Explorers or Creators and Destroyers or Earth’s Place in Space |  |

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| **EVEN** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **Skills Focus** |
| **Term 1** | **Digital Technologies**ST3-11DI-T, ST3-2DP-T, ST3-3DP-THow do components of digital marketing systems interact with each other to transmit data?How do the components of digital systems connect together to form networks?How do we represent decision-making in an algorithm? | Processing and analysing dataIdentifying and definingResearching and planningProducing and implementingTesting and evaluating |
| Game Time! |  |
| **Term 2** | **Physical World** ST3-8PW-ST, ST3-1WS-S, ST3-2DP-THow can we make a force stronger or weaker?How can electricity be used in a product or system? | Questioning and predictingPlanning and conducting investigationsProcessing and analysing dataCommunicatingProducing and implementingTesting and evaluating |
| Circuits and Switches or Essential Energy |  |
| **Term 3** | **Living World** ST3-4LW-S, ST3-1WS-S, ST3-5LW-TWhy is it important for food and/or fibre to be produced sustainably? | Questioning and predictingPlanning and conducting investigationsProcessing and analysing dataIdentifying and definingResearching and Planning |
| Marvellous Micro-organisms or Rising Salt |  |
| **Term 4** | **Material World** ST3-1WS-S, ST3-7MW-TWhy are the characteristics of materials important when designing and producing? | Questioning and predictingPlanning and conducting investigationsProcessing and analysing dataResearch and planningProducing and implementing |
| What’s the Matter? |  |