CANUNCRY		Canungra SS – Science Curriculum					
AIM	HIGH	Term 1	Term 2	Term 3			
Science	Ρ	Our Living Creek Exploring our Living world Students use their senses to observe the needs of living things, both animals and plants. They begin to understand that observing is an important part of science and that scientists discuss and record their observations. Students learn that the survival of all living things is reliant on basic needs being met, and there are consequences when needs are not met. They analyse different types of environments and how each provides for the needs of living things. Students consider the impact of human activity and natural events on basic needs. They share ideas about how they can support and protect living things in the school grounds.	Weather Watch Weather Report Students use their senses to explore and observe the weather in their local environment and learn that we can record our observations using symbols. Students observe that weather can change and identify the features that reflect a change in the weather. They are given opportunities to reflect on the impact of these changes on themselves, in particular on clothing, shelter and activities, through various cultural perspectives. They begin to realise that weather conditions are not the same for everyone. Students also learn about the impact of daily and seasonal changes on plants and animals. Throughout the unit students reflect on how the weather affects living things and have opportunities to communicate their observations about the weather. Weather Report	Our Material World Making a wind ornament Students examine familiar objects using their senses and understand that objects are made of materials that have observable properties. Through exploration, investigation and discussion, students learn how to describe the properties of the materials from which objects are made and how to pose scientific questions. Students observe and analyse the reciprocal connection between properties of materials, objects and their uses so that they recognise the scientific decision making that occurs in everyday life. Students conduct investigations to determine suitability of materials for a particular purpose and share their ideas and observations using scientific language and representations. Making a wind ornament	Invest Making Studer Real-li Focus observ recogr senses questii and re observ knowle		
e	1	Living Adventure	Material Madness	Exploring Sky and Land	Inve		
Scien		Describing a Habitat	Rocking the Boat	Describing Objects	Mus		
Science	2	Toy Factory Design a Game – pinball machine Students understand how a push or pull affects how an object moves or changes shape. They understand that science involves asking questions about and describing changes in the way an object moves or can be moved and how this knowledge is used in their daily lives. They pose questions and make predictions about changes that can affect how an object moves, and investigate and explain how pushes and pulls cause movement in objects, comparing their observations with predictions. They use informal measurements to make and compare observations about movement and sort information about the way toys move. They then apply this science knowledge in explaining how pushes and pulls can be used to change the movement of a toy or object they create. Making a Lunchbox	Good to Grow Exploring Growth Students examine how living things, including plants and animals, change as they grow. They ask questions about, investigate and compare the changes that occur to different living things during their life stages. Students consider how Aboriginal peoples and Torres Strait Islander peoples living a traditional lifestyle use the knowledge of life stages of animals and plants in their everyday lives. They conduct investigations including exploring the growth and life stages of a class animal and plant. Students respond to questions, make predictions, use informal measurements, sort information, compare observations, and represent and communicate observations and ideas. Exploring Growth	Mix, Make & Use Making a Lunchbox Students investigate combinations of different materials and give reasons for the selection of particular materials according to their properties and purpose. Students understand that science involves asking questions about, and describing changes to, familiar objects and materials. They describe changes made to materials when combining them to make an object that has a purpose in everyday life. Students pose questions, make predictions and follow instructions to record observations in a guided investigation. They represent and communicate their observations using scientific language. Design a Game – pinball machine	Wate Conser Studen resourt the fut record knowle be tak make conset how A knowle		
Science	3	Day & Night Presentation about the Earth's movement Students use their understanding of the movement of Earth to suggest explanations for everyday observations such as day and night, sunrise and sunset and shadows. They identify the observable and non- observable features of Earth and compare its size with the sun and moon. They make observations of the changes in sunlight throughout the day and investigate how Earth's movement causes these changes. Students plan and conduct an investigation about shadows and collect data safely using appropriate equipment to record formal measurements. Students represent their data in tables and simple column graphs to identify patterns and explain their results. They identify how Aboriginal peoples and Torres Strait Islander peoples use knowledge of Earth's movement in their traditional lives. Students explore the relationship between the sun and Earth to identify where people use science knowledge in their lives. They create a presentation to communicate their understandings and findings about the regular changes on Earth and its rotation.	Living and Non-Living Investigating Living Things Students learn about grouping living things based on observable features and that living things can be distinguished from non-living things. They justify sorting living things into common animal and plant groups based on observable features. They also explore grouping familiar things into living, non-living, once living things and products of living things. Students understand that science knowledge helps people to understand the effect of actions. They use their experiences to identify questions that can be investigated scientifically and make predictions about scientific investigations. Students identify and use safe practices to make scientific observations and record data about living and non-living things. Students use scientific language and representations to communicate their observations, ideas and findings.	Hot Stuff Investigating Heat Students investigate how heat energy is produced and the behaviour of heat when it transfers from one object or area to another. They explore how heat can be observed by touch and that formal measurements of the amount of heat (temperature) can be taken using a thermometer. Students identify that heat energy transfers from warmer areas to cooler areas. They use their experiences to identify questions about heat energy and make predictions about investigations. Students describe how they can use science investigations to respond to questions. Students plan and conduct investigations about heat and heat energy transfer and collect and record observations, using appropriate equipment to record measurements. They represent their data in tables and simple column graphs, to identify patterns, explain their results and describe how safety and fairness were considered in their investigations.	Solids Changi Studer can be proper object in mak of their affects includi assess fairnes how so recogr of solid		
		Investigating Living Things	Presentation about the Earth's movement	Investigating Heat	Cha		

#### Term 4

### stigating Movement

g Moveable Animals nts engage in activities from the five contexts of learning: Play, ife situations, Investigations, Routines and transitions, and ed learning and teaching. Students use their senses to ve and explore the properties and movement of objects. They nise that science involves exploring and observing using the s. Students engage in hands on investigations and respond to ons about the factors that influence movement. They share effect on observations and ideas and represent what they ve. Students have the opportunity to apply and explain edge of movement in a familiar situation.

does it move?

# estigating Light and Sound

## ical Instrument

### er in Our Creek

rving Water - posters

nts investigate Earth's resources. They describe how Earth's rces are used and the importance of conserving resources for ture of all living things. They use informal measurements to d observations from experiments. Students use their science edge of conservation to propose and explain actions that can to conserve Earth's resources, and decisions they can in their everyday lives. Students share their ideas about rivation of Earth's resources in a presentation. Students learn boriginal peoples and Torres Strait Islander peoples use their edge of conservation in their everyday lives.

at Resource Am I?

## s & Liquids

ing States

nts understand how a change of state between solid and liquid e caused by adding or removing heat. They explore the rties of liquids and solids and understand how to identify an as a solid or a liquid. Students identify how science is involved king decisions and how it helps people to understand the effect ir actions. They evaluate how adding or removing heat energy s materials used in everyday life. They conduct investigations, ing identifying investigation questions and making predictions, sing safety, recording and analysing results, considering ss and communicating ideas and findings. Students describe cience investigations can be used to answer questions. They nise that Australia's First Peoples traditionally used knowledge ds and liquids in their everyday lives.

inging States

Science	4	<b>Ready, Set grow!</b> Mapping Life Cycles & Relationships Students investigate life cycles and sequence key stages in the life cycles of plants and animals. They examine relationships between living things and their dependence on each other and on the environment. By considering human and natural changes to the habitats, students predict the effect of these changes on living things, including the impact on life cycles and the survival of the species. Students identify when science is used to understand the effect of their own and others' actions. Students identify investigable questions and make predictions based on prior knowledge. They discuss ways to conduct investigations safely and make and record observations with accuracy. They use tables and column graphs to organise their data, suggest explanations for observations and compare their findings with their predictions. They communicate their observations and findings.	Forces Build a game Students use games to investigate and demonstrate the direction of forces and the effect of contact and non-contact forces on objects. They use their knowledge of forces to make predictions about games and complete games safely to collect data. Students use tables and column graphs to organise data and identify patterns so that findings can be communicated. They identify how science knowledge of forces helps people understand the effects of their actions.	Here Today, Gone Tomorrow Soil Erosion Students explore natural processes and human activity that cause weathering and erosion of Earth's surface. Students relate this to their local area, make observations and predict consequences of future occurrences and human activity. They describe situations where science understanding can influence their own and others' actions. They identify questions and make predictions based on prior knowledge. They safely use equipment and make and record observations with accuracy. They suggest explanations for their observations, compare their findings with their predictions and communicate their observations and findings.	Ochr Inves Stude how t partic predic the ef Stude equip invest result with t invest their f
		Mapping Life Cycles & Relationships	Build a game	Soil Erosion	Inve
sience	5	Exploring the Solar System	Adaptations	Now You See It	Mat
လိ		The Solar System	Creature Design	Investigating Light	Inve
Science	6	Mould Investigating Mouldy Bread Students explore the environmental conditions that affect the growth and survival of living things. They use simulations to plan and conduct fair tests and analyse the results of these tests. Students pose questions, plan and conduct investigations into the environmental factors that affect the growth of living things. They gather, record and interpret observations relating to their investigations. Students consider human impact on the environment and how science knowledge can be used to inform personal and community decisions. They recommend actions to develop environments for native plants and animals.	Heat Reversible or Irreversible? Students investigate changes that can be made to materials and how these changes are classified as reversible or irreversible. They plan investigation methods using fair testing to answer questions. Students identify and assess risks, make observations, accurately record data and develop explanations. They suggest improvements, which can be made to their methods to improve investigations. Students explore the effects of reversible and irreversible changes in everyday materials and how this scientific understanding is used to solve problems that directly affect people's lives. Reversible or Irreversible?	Energy and Electricity Build a Solar Boat Students investigate electrical circuits as a means of transferring and transforming electricity. They design and construct electrical circuits to make observations, develop explanations and perform specific tasks, using materials and equipment safely. Students explore how energy from a variety of sources can be used to generate electricity and identify energy transformations associated with different methods of electricity production. They identify where scientific understanding and discoveries related to the production and use of electricity have affected people's lives and evaluate personal and community decisions related to use of different energy sources and their sustainability. Build a Solar Boat	Natu Exan Stude weath of ear comm interp explo of peo Stude comm disast tropic Exan

## re Mixtures

#### stigating Ochres

ents investigate physical properties of materials and consider these properties influence the selection of materials for cular purposes. Students consider how science involves making ctions and how science knowledge helps people to understand iffect of their actions.

ents make predictions and use appropriate materials and oment safely to make and record observations when conducting stigations. Students represent data, identify patterns in their ts, suggest explanations for their results, compare their results their predictions, and reflect upon the fairness of their stigations. Students complete simple reports to communicate findings.

estigating Ochres

# tter Matters

estigating Solids, Liquids and Gases

# ural Disasters

#### n & Diorama

ents explore how sudden geological changes and extreme her events can affect Earth's surface. They consider the effects rthquakes and volcanoes on Earth's surface and how nunities are affected by these events. They gather, record and oret data relating to weather and weather events. Students ore the ways in which scientists are assisted by the observations ople from other cultures, including those throughout Asia. ents construct representations of cyclones and evaluate nunity and personal decisions related to preparation for natural ters. They investigate how predictions regarding the course of cal cyclones can be improved by gathering data.

m & Diorama