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Curriculum focus – what we will be working on in Science Lab this term

	Content	Assessment
Year 1 in ½ composite class	Exploring light and sound In this unit students explore sources of light and sound. They manipulate materials to observe how light and sound are produced, and how changes can be made to light and sound effects.	Investigating light and sound Students participate in a guided investigation designing a toy that makes sound, and describe the effects of interacting with it. Students sort objects according to criteria and share observations with others.
Year 2	Toy factory In this unit, students will 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.	Designing a toy Students design a toy that will move with a push or pull, and describe a change to the toy and how it affects the toy's movement. They pose an investigation question and make a prediction about the toy's movement. Students represent and communicate observations and ideas.
Year 3	Hot stuff In this unit students will investigate how heat energy is produced and the behaviour of heat when it transfers from one object or area to another. They will explore how heat can be observed by touch and that formal measurements of the amount of heat (temperature) can be taken using a thermometer.	Understanding heat Students conduct an investigation into the behaviour of heat to explain everyday observations. Students describe how science investigations can be used to respond to questions. Students describe how safety and fairness were considered and use diagrams and other representations to communicate ideas.
Year 4	Fast forces! In this unit students will use games to investigate and demonstrate the direction of forces and the effect of contact and non-contact forces on objects. They will use their knowledge of forces to make predictions about games and complete games safely to collect data.	Exploring the transfer of light Students plan, predict and conduct a fair investigation to explain everyday phenomena associated with the transfer of light. Students describe how scientific developments have affected people's lives and help us solve problems. Students describe ways to improve the fairness of their investigation and communicate ideas and findings.
Year 5	Now you see it In this unit, students will investigate the properties of light and the formation of shadows. They will investigate reflection angles, how refraction affects our perceptions of an object's location, how filters absorb light and affect how we perceive the colour of objects, and the relationship between light source distance and shadow height.	Exploring the transfer of light Students plan, predict and conduct a fair investigation to explain everyday phenomena associated with the transfer of light. Students describe how scientific developments have affected people's lives and help us solve problems. Students describe ways to improve the fairness of their investigation and communicate ideas and findings.
Year 6	Energy and electricity In this unit students will investigate electrical circuits as a means of transferring and transforming electricity. They will design and construct electrical circuits to make observations, develop explanations and perform specific tasks, using materials and equipment safely.	Exploring energy and electricity Students analyse requirements for the transfer of electricity in a circuit and describe how energy can be transformed from one form to another to generate electricity. Students explain how scientific knowledge is used to assess energy sources selected for a specific purpose.
STEM Club Year 4-6	Electrical Engineering – Exploring electrical circuits. Finding solutions to everyday problems	