

## Year 2 Digital Technologies

### Achievement

Learning area achievement standard

By the end of Year 2 students describe the purpose of familiar products, services and environments, including digital systems. They represent and process data in different ways and follow and describe basic algorithms involving a sequence of steps and branching to show how simple digital solutions meet a need for known users. For each of the 2 prescribed technologies contexts they identify the features and uses of technologies and create designed solutions. Students select design ideas based on their personal preferences. They access and use the basic features of common digital tools to create, locate and share content, and collaborate and communicate design ideas using models and drawings. Students safely produce designed or digital solutions and recognise that digital tools may store their personal data online.

### Assessment Elements

An overall level of achievement in this subject is determined by the teacher's on-balance judgment of the evidence presented in students' summative assessment across the following:

- **Knowledge and Understanding**
- **Processes and Production Skills**

### Delivery (mode, requirements, lessons)

Students will be offered a blended model of delivery with live lessons and independent study on their program to complete lessons, tasks and assessment in accordance with the Work Rate Calendar.

### Student Requirements

Computer, internet access, email, printer, scanner, headset with microphone, stationery, resource list and SRS list.

Units, Learning Experiences and Summative Assessment		
Semester 2	Term 3	<b>Unit 1</b> Under Lock and Key and Data Detectives This unit is designed to help students understand the concept of personal information and why it is important to protect personal information that identifies you. Students will learn how to become safe and responsible digital citizens by only sharing personal information with people they trust and keeping their computers safe. They will also learn about the importance of seeking guidance from a trusted adult.
		<b>Summative Assessment:</b> <ul style="list-style-type: none"><li>• Students will look at a student profile and identify which parts of the profile are safe to share online and which are not. Students will need to explain why you think the information is safe to share or not.</li><li>• Students will access and use Book Creator. You will use the basic functions in Book Creator to edit the eBook in order to represent and process data in different ways.</li></ul>
	Term 4	<b>Unit 2</b> Digital Systems and Understanding Algorithms. In this unit, students will be naming and using digital systems that they interact with at home and school, for example using a touchpad to move the cursor on a laptop, or the keyboard to type a simple message on a tablet Students will explore how algorithms are an effective sequence of steps with an intended outcome and can be represented by codes. Students also explore codes and how to follow an algorithm. Students learn that digital systems use algorithms to solve problems.
		<b>Summative assessment:</b> <ul style="list-style-type: none"><li>• Students will identify and explore digital systems and their components for a purpose. They will show how simple digital solutions meet a need for known users</li><li>• Students will follow and describe basic algorithms involving a sequence of steps and branching (decisions) Students will complete a Bee Bot pathway by following a pathway and developing a pathway, involving branching.</li></ul>

**Disclaimer** All of the above information is accurate at the time of development.