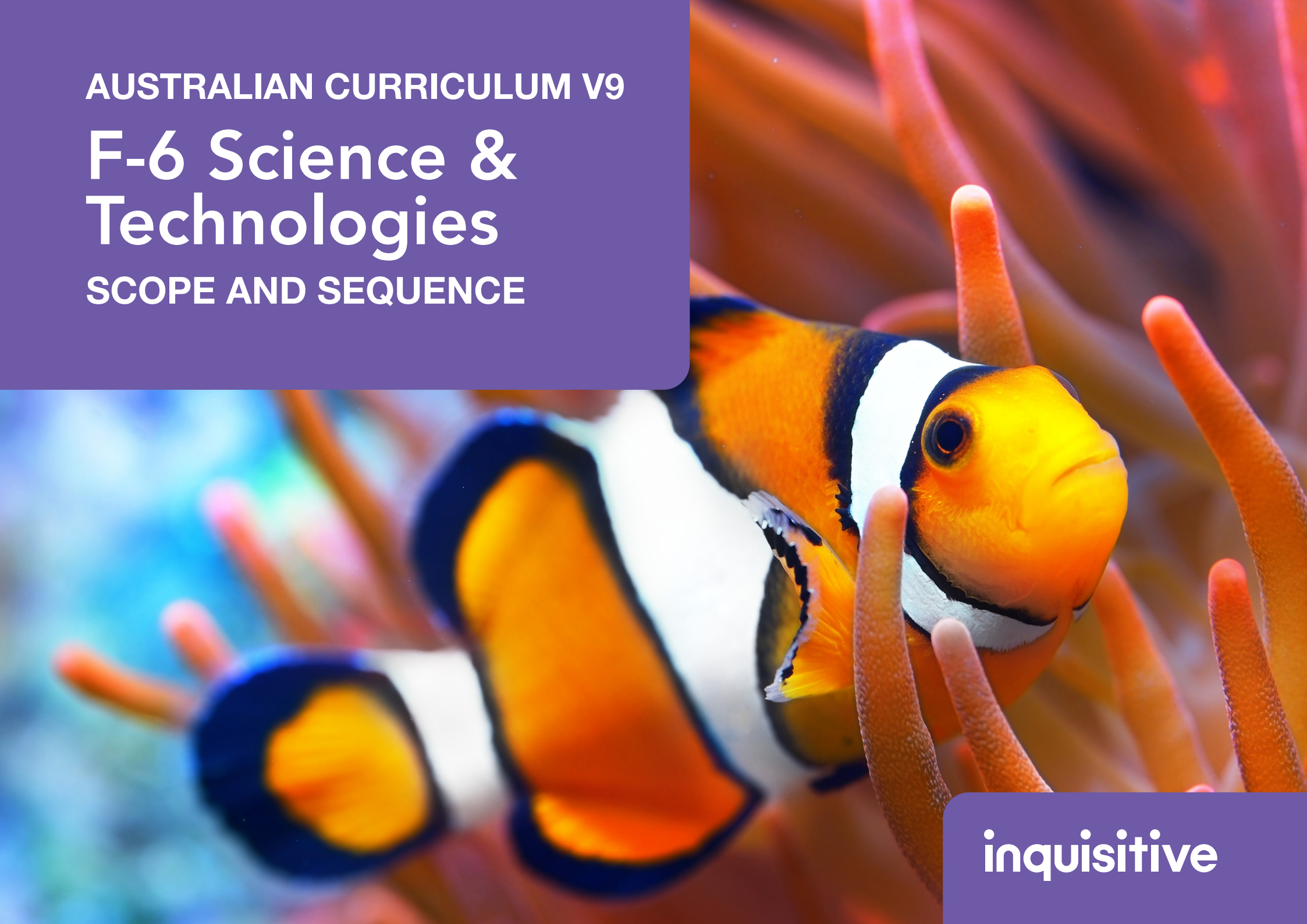


AUSTRALIAN CURRICULUM V9

F-6 Science & Technologies

SCOPE AND SEQUENCE



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The collage features four digital activity screens:

- Activity 6: Draw and label three plants that could be grouped together.** This screen shows a drawing of three plants: a Daisy, a Sunflower, and a Tulip. Below the drawings, it asks, "Why are your plants a group?" and "My plants are a group because ...". A sidebar on the right lists "Plant" parts: stem, fruit.
- Activity 4: Desert Plant Experiment.** This screen provides instructions for a group experiment to determine if a desert plant can store water. It includes a list of materials (2 pot plants, 1 desert plant, 1 leafy green plant, 2 clear plastic bags, 2 elastic bands, 1 bottle of water) and a procedure (Place both of your potted plants in the same sunny location. Add the same amount of water to each plant. Tie a clear plastic bag over each plant, sealing it tightly with an elastic band. Observe and record what happens inside the bag and to the plant at regular intervals.). It also includes a "TOP TIP" section.
- Activity 4: Explore the sounds on the virtual piano.** This screen shows a virtual piano keyboard with a list of animal sounds (cat, dog, frog, etc.) and a "Piano" button. It asks, "With your class, make a list of the animals you hear."
- Digital Slide With Embedded Videos, Science Interactives and eBooks.** This screen shows a digital slide with embedded videos, science interactives, and eBooks.

Arrows indicate the flow of the program: from the plant drawing activity to the desert plant experiment, then to the virtual piano, and finally to the digital slide with embedded videos, science interactives, and eBooks.

Teaching Notes and Background Science

Hands-on Investigations

Real-Time Student Responses

Digital Slides With Embedded Videos, Science Interactives and eBooks

Capture Real-Time Student Responses



“

As a specialist Science teacher, I love to use Inquisitive. The content is presented in an interesting format that makes learning the content fun for the kids and allows them to communicate what they have learnt in a variety of ways.

Lisa, Teacher

“

We absolutely LOVE Inquisitive and look forward to seeing the new units. In terms of feedback for you, we ADORE the fact that the children can access the slides and write their answers online. It makes it easy to monitor on task behaviour, and gives us an instantly accessible digital record for assessment.

Sharyn, Assistant Principal



TERM 1	TERM 2	TERM 3	TERM 4
Chemical Sciences	Physical Sciences	Biological Sciences	Digital Technologies
What Are Things Made Of? LESSONS 1-4 KEY INQUIRY QUESTION What are some of the observable properties of materials? ACARA 9.0 AC9SFU03, AC9SFH01, AC9SFI01, AC9SFI02, AC9SFI03, AC9SFI04, AC9SFI05	How Things Move LESSONS 1-4 KEY INQUIRY QUESTION Why and how do things move? ACARA 9.0 AC9SFU02, AC9SFH01, AC9SFI01, AC9SFI03, AC9SFI04, AC9SFI05	Observing and Sorting Living Things LESSONS 1-4 KEY INQUIRY QUESTION How can we group plants and animals? ACARA 9.0 AC9SFU01, AC9SFH01, AC9SFI01, AC9SFI02, AC9SFI03, AC9SFI04, AC9SFI05	Data Detectives LESSONS 1-4 KEY INQUIRY QUESTION How can we use objects, pictures and symbols to represent data safely? ACARA 9.0 AC9TDIFK02, AC9TDIFP01
Design and Technologies	Digital Technologies	Design and Technologies	
COMING SOON Safe Haven LESSONS 1-4 KEY INQUIRY QUESTION How can we design a shelter to protect animals? ACARA 9.0 AC9TDEFK01, AC9TDEFP01	Using Digital Systems LESSONS 1-4 KEY INQUIRY QUESTION How do we use digital systems to learn, share and connect with others? ACARA 9.0 AC9TDIFK01, AC9TDEFP01	Pack It Perfect LESSONS 1-4 KEY INQUIRY QUESTION Why is food packaging important? ACARA 9.0 AC9TDEFK01, AC9TDEFP01	



TERM 1	TERM 2	TERM 3	TERM 4
Physical Sciences	Earth and Space Sciences	Biological Sciences	Digital Technologies
Pushes and Pulls LESSONS 1-5 KEY INQUIRY QUESTION Can a push or a pull change an object's shape or the way it moves? ACARA 9.0 AC9S1U03, AC9S1H01, AC9S1I01, AC9S1I02, AC9S1I03, AC9S1I04, AC9S1I05, AC9S1I06	When Weather and Seasons Change LESSONS 1-4 KEY INQUIRY QUESTION How does changing weather affect living things? ACARA 9.0 AC9S1U02, AC9S1H01, AC9S1I01, AC9S1I03, AC9S1I04, AC9S1I05, AC9S1I06	What Do Living Things Need? LESSONS 1-5 KEY INQUIRY QUESTION What do plants and animals need to live? ACARA 9.0 AC9S1U01, AC9S1H01, AC9S1I01, AC9S1I03, AC9S1I04, AC9S1I05, AC9S1I06	Simple Problem Solving LESSONS 1-4 KEY INQUIRY QUESTION How can we use algorithms to solve problems and organise information clearly? ACARA 9.0 AC9TDI2P02
Design and Technologies	Digital Technologies	Design and Technologies	
COMING SOON Move Me LESSONS 1-4 KEY INQUIRY QUESTION How can materials be changed to create movement? ACARA 9.0 AC9TDE2K01, AC9TDE2K02, AC9TDE2P01, AC9TDE2P02, AC9TDE2P03, AC9TDE2P04	Exploring Digital Systems and Data LESSONS 1-4 KEY INQUIRY QUESTION How do digital systems help us solve problems and meet needs? ACARA 9.0 AC9TDI2K01, AC9TDI2K02, AC9TDI2P01, AC9TDI2P03, AC9TDI2P04	Food, Shelter and Clothing LESSONS 1-5 KEY INQUIRY QUESTION How do living things provide us with food, clothing and shelter? ACARA 9.0 AC9TDE2K01, AC9TDE2K03, AC9TDE2P01, AC9TDE2P03	



TERM 1	TERM 2	TERM 3	TERM 4
Physical Sciences	Earth and Space Sciences	Chemical Sciences	Digital Technologies
Making Sounds LESSONS 1-4 KEY INQUIRY QUESTION What happens when we make a sound? ACARA 9.0 AC9S2U02, AC9S2H01, AC9S2I01, AC9S2I04, AC9S2I05, AC9S2I06	Earth in the Solar System LESSONS 1-4 KEY INQUIRY QUESTION What are the planets in our solar system and what other objects can we see in the sky? ACARA 9.0 AC9S2U01, AC9S2H01, AC9S2I01, AC9S2I02, AC9S2I03, AC9S2I04, AC9S2I05, AC9S2I06	Changing Materials LESSONS 1-4 KEY INQUIRY QUESTION How can materials be changed? ACARA 9.0 AC9S2U03, AC9S2H01, AC9S2I01, AC9S2I03, AC9S2I04, AC9S2I05, AC9S2I06	Solving Problems with Algorithms LESSONS 1-4 KEY INQUIRY QUESTION How does following steps, making choices and using repetition help us achieve a goal? ACARA 9.0 AC9TDI2P02
Design and Technologies	Digital Technologies	Design and Technologies	
Make Some Noise LESSONS 1-4 KEY INQUIRY QUESTION How can we make a musical instrument? ACARA 9.0 AC9TDE2K01, AC9TDE2P01, AC9TDE2P02, AC9TDE2P03, AC9TDE2P04	Digital Systems and Safety LESSONS 1-3 KEY INQUIRY QUESTION How can we use digital systems safely to create, share and protect our personal information online? ACARA 9.0 AC9TDI2P07, AC9TDI2P06, AC9TDI2P04, AC9TDI2P05	COMING SOON Healthy Choices LESSONS 1-6 KEY INQUIRY QUESTION How can we make healthy food choices? ACARA 9.0 AC9TDE2K01, AC9TDE2K04, AC9TDE2P01, AC9TDE2P02, AC9TDE2P03, AC9TDE2P04	



TERM 1	TERM 2	TERM 3	TERM 4
Physical Sciences	Earth and Space Sciences	Chemical Sciences	Biological Sciences
Heat Energy LESSONS 1-4 KEY INQUIRY QUESTION How does heat energy make things happen? ACARA 9.0 AC9S3U03, AC9S3H02, AC9S3I01, AC9S3I02, AC9S3I03, AC9S3I04, AC9S3I05, AC9S3I06	Rocks, Minerals and Soils LESSONS 1-5 KEY INQUIRY QUESTION What are the properties of rocks, minerals and soils and why are they important Earth resources? ACARA 9.0 AC9S3U02, AC9S3H01, AC9S3H02, AC9S3I01, AC9S3I02, AC9S3I03, AC9S3I04, AC9S3I05, AC9S3I06	Changes of State LESSONS 1-3 KEY INQUIRY QUESTION How do materials change when heated or cooled? ACARA 9.0 AC9S3U04, AC9S3H02, AC9S3I01, AC9S3I02, AC9S3I03, AC9S3I04, AC9S3I05, AC9S3I06	Life Cycles of Living Things LESSONS 1-5 KEY INQUIRY QUESTION What are the life cycles of plants and animals? ACARA 9.0 AC9S3U01, AC9S3H02, AC9S3I01, AC9S3I02, AC9S3I03, AC9S3I04, AC9S3I05, AC9S3I06
Design and Technologies	Digital Technologies	Design and Technologies	Digital Technologies
COMING SOON Sustainable Designs LESSONS 1-5 KEY INQUIRY QUESTION How can we design a lunch bag that is good for the planet and keeps our food fresh? ACARA 9.0 AC9TDE4K01, AC9TDE4K02, AC9TDE4P01, AC9TDE4P02, AC9TDE4P03, AC9TDE4P04, AC9TDE4P05	Digital Systems and Data Representations LESSONS 1-5 KEY INQUIRY QUESTION How do digital systems and data help us connect, share and represent information in different ways? ACARA 9.0 AC9TDI4K01, AC9TDI4K02, AC9TDI4K03	COMING SOON Heat and Eat LESSONS 1-5 KEY INQUIRY QUESTION How does heat affect food? ACARA 9.0 AC9TDE4K01, AC9TDE4K04, AC9TDE4P01, AC9TDE4P02, AC9TDE4P04, AC9TDE4P05	Programming Basics LESSONS 1-4 KEY INQUIRY QUESTION How can I write my own computer programs? ACARA 9.0 AC9TDI4P02, AC9TDI4P04



TERM 1	TERM 2	TERM 3	TERM 4
Physical Sciences	Earth and Space Sciences	Chemical Sciences	Biological Sciences
Forces LESSONS 1-4 KEY INQUIRY QUESTION How can objects affect other objects with or without touching each other? ACARA 9.0 AC9S4U03, AC9S4H02, AC9S4I01, AC9S4I02, AC9S4I03, AC9S4I04, AC9S4I05, AC9S4I06	The Water Cycle LESSONS 1-5 KEY INQUIRY QUESTION How does water move through the ocean, sky and landscape? ACARA 9.0 AC9S4U02, AC9S4H01, AC9S4H02, AC9S4I01, AC9S4I02, AC9S4I03, AC9S4I04, AC9S4I05, AC9S4I06	Using Materials for a Purpose LESSONS 1-3 KEY INQUIRY QUESTION How do you decide on which material to use for a particular purpose? ACARA 9.0 AC9S4U04, AC9S4H02, AC9S4I01, AC9S4I02, AC9S4I03, AC9S4I04, AC9S4I05, AC9S4I06	Food Chains LESSONS 1-4 KEY INQUIRY QUESTION How are living things connected in food chains? ACARA 9.0 AC9S4U01, AC9S4I01, AC9S4I04, AC9S4I06
Design and Technologies	Digital Technologies	Design and Technologies	Digital Technologies
COMING SOON Boat Builders LESSONS 1-5 KEY INQUIRY QUESTION How can we combine materials and use forces to build a boat? ACARA 9.0 AC9TDE4K01, AC9TDE4K02, AC9TDE4P01, AC9TDE4P02, AC9TDE4P03, AC9TDE4P04, AC9TDE4P05	Digital Navigators LESSONS 1-4 KEY INQUIRY QUESTION How can we use digital tools safely and responsibly? ACARA 9.0 AC9TDI4P06, AC9TDI4P07, AC9TDI4P08, AC9TDI4P09	Growing Smart LESSONS 1-5 KEY INQUIRY QUESTION What is sustainable farming? ACARA 9.0 AC9TDE4K01, AC9TDE4K03, AC9TDE4P01, AC9TDE4P02, AC9TDE4P04, AC9TDE4P05	Logic and Loops LESSONS 1-5 KEY INQUIRY QUESTION How can algorithms improve problem solving? ACARA 9.0 AC9TDI4P01, AC9TDI4P02, AC9TDI4P03, AC9TDI4P04, AC9TDI4P05

All Shook Up can be used as an alternative to **Boat Builders** or **Growing Smart**

KEY INQUIRY QUESTION: How can we design buildings that withstand earthquakes?

ACARA 9.0 AC9TDE4K01, AC9TDE4K02, AC9TDE4P01, AC9TDE4P02, AC9TDE4P03, AC9TDE4P04, AC9TDE4P05



TERM 1	TERM 2	TERM 3	TERM 4
Physical Sciences	Earth and Space Sciences	Chemical Sciences	Biological Sciences
Seeing the Light LESSONS 1-6 KEY INQUIRY QUESTION What are the characteristic behaviours of light energy? ACARA 9.0 AC9S5U03, AC9S5H02, AC9S5H02, AC9S5I01, AC9S5I02, AC9S5I03, AC9S5I04, AC9S5I05	Changes to Earth's Surface LESSONS 1-5 KEY INQUIRY QUESTION How do natural processes cause slow or rapid change to Earth's surface? ACARA 9.0 AC9S5U02, AC9S5H01, AC9S5H02, AC9S5I01, AC9S5I02, AC9S5I04, AC9S5I05, AC9S5I06	Matter and Particles LESSONS 1-4 KEY INQUIRY QUESTION What is matter and how is it different? ACARA 9.0 AC9S5U04, AC9S5H02, AC9S5I01, AC9S5I02, AC9S5I04, AC9S5I05, AC9S5I06	Adapting to Survive LESSONS 1-5 KEY INQUIRY QUESTION How do the structural and behavioural features of living things support survival? ACARA 9.0 AC9S5U01, AC9S5I01, AC9S5I02, AC9S5I03, AC9S5I04, AC9S5I05, AC9S5I06
Design and Technologies	Digital Technologies	Digital Technologies	Design and Technologies
COMING SOON Solar Smart LESSONS 1-5 KEY INQUIRY QUESTION How can we use the Sun's energy to power a home? ACARA 9.0 AC9TDE6K01, AC9TDE6K02, AC9TDE6K05, AC9TDE6P01, AC9TDE6P02, AC9TDE6P03, AC9TDE6P04, AC9TDE6P05	Digital Tools and Online Protocols LESSONS 1-3 KEY INQUIRY QUESTION How can we responsibly use digital tools to create, share and protect information online? ACARA 9.0 AC9TDI6P07, AC9TDI6P08, AC9TDI6P09, AC9TDI6P10	Decoding Data LESSONS 1-2 KEY INQUIRY QUESTION How do digital systems use numbers and binary to represent and communicate data? ACARA 9.0 AC9TDI6K03, AC9TDI6K04	Growing Smart LESSONS 1-6 KEY INQUIRY QUESTION How and why are food and fibre produced in managed environments? ACARA 9.0 AC9TDE6K01, AC9TDE6K03, AC9TDE6K05, AC9TDE6P01, AC9TDE6P02, AC9TDE6P04
		Problem Solving and Digital Designs LESSONS 1-5 KEY INQUIRY QUESTION How can we design user-friendly solutions and create algorithms to meet people's needs? ACARA 9.0 AC9TDE6P02, AC9TDI6P02, AC9TDI6P04, AC9TDI6P05	



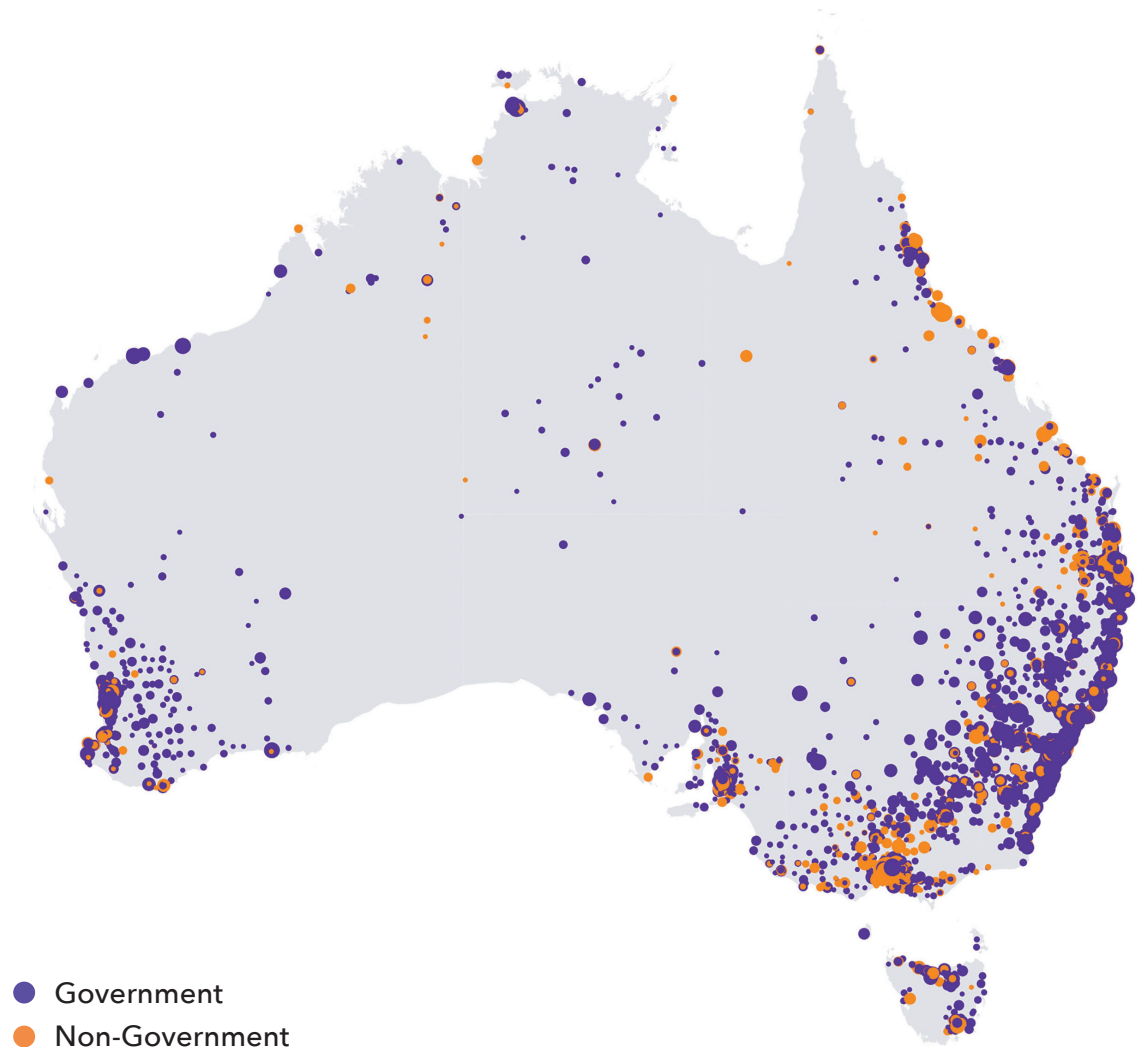
TERM 1	TERM 2	TERM 3	TERM 4
Physical Sciences	Earth and Space Sciences	Chemical Sciences	Biological Sciences
Circuits LESSONS 1-5 KEY INQUIRY QUESTION What does an electrical circuit do and what are its parts? ACARA 9.0 AC9S6U03, AC9S6H02, AC9S6I01, AC9S6I02, AC9S6I04, AC9S6I05	When Planets Move LESSONS 1-6 KEY INQUIRY QUESTION How do we know the Earth is moving? ACARA 9.0 AC9S6U02, AC9S6H01, AC9S6I04, AC9S6I06	Changing Matter LESSONS 1-5 KEY INQUIRY QUESTION What is the result of combining materials? ACARA 9.0 AC9S6U04, AC9S6H02, AC9S6I01, AC9S6I02, AC9S6I03, AC9S6I04, AC9S6I05, AC9S6I06	Living Things in Their Environments LESSONS 1-5 KEY INQUIRY QUESTION How do the physical conditions of the environment affect the survival of living things? ACARA 9.0 AC9S6U01, AC9S6H02, AC9S6I01, AC9S6I02, AC9S6I03, AC9S6I04, AC9S6I05, AC9S6I06
Design and Technologies	Digital Technologies	Design and Technologies	Digital Technologies
COMING SOON Smart Food Choices LESSONS 1-6 KEY INQUIRY QUESTION How can we select and prepare healthy meals? ACARA 9.0 AC9TDE6K01, AC9TDE6K04, AC9TDE6P01, AC9TDE6P02, AC9TDE6P03, AC9TDE6P04, AC9TDE6P05	Digital Systems and Networks LESSONS 1-3 KEY INQUIRY QUESTION How do the parts of digital systems work together and connect to share data? ACARA 9.0 AC9TDI6K01, AC9TDI6K02	COMING SOON Waste Wise LESSONS 1-4 KEY INQUIRY QUESTION How can we manage waste more sustainably? ACARA 9.0 AC9TDE6K01, AC9TDE6K05, AC9TDE6P01, AC9TDE6P02, AC9TDE6P03, AC9TDE6P04, AC9TDE6P05	Designing Digital Systems LESSONS 1-2 KEY INQUIRY QUESTION How important is design in digital systems? ACARA 9.0 AC9TDI6P01, AC9TDI6P03, AC9TDI6P04, AC9TDI6P02, AC9TDI6P05

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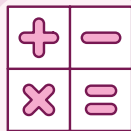
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