

# PrimeSCI! PREP - GRADE 2

Primary School Science Incursions

PrimeSCI! delivers exciting and powerful STEM programs to ignite curiosity and develop the next generation of scientists.

## CHEMICAL SCIENCES

### Bend Stretch Twist

Learn how changing the shape and temperature in materials result in dramatic changes in their behaviour. Work with amazing materials like nappies and oobleck. Highly engaging and hands-on.

### Mix and Unmix

Why do some things mix with water while others do not? How do we separate mixtures to get what we want? This delightful hands-on session will draw children into the world of chemistry and engineering as they explore the phenomena of dissolving, crystallisation and make colourful discoveries with everyday materials.

## PHYSICAL SCIENCES

### Toys in Motion

Explore forces and motion through the properties of toys. By the end of the session, students will understand the concepts of push, pull, friction and gravity and link scientific language to familiar experiences and observations.

### Sound and Light

Students learn to explain how they see and hear. Through hands-on activities including torches, prisms and mirrors, the students explore how light and sound travel, bounce and move through objects.

## EARTH AND SPACE SCIENCES

### Our Blue Marble

Explore how Planet Earth is ideal for supporting life within the Solar System with its temperature, atmosphere, and water cycle. Students learn about how planets rotate and orbit, they measure temperature, experience air pressure and snow, and make their own planets in a cup.

### Earth's Resources

What do we dig up from the Earth? Students identify samples from Australian mines and work out the uses of these minerals in our everyday lives. We can't keep digging up and chopping down Earth's resources forever, so students work in groups to learn how to recycle and make their own recycled paper.

## DIGITAL TECHNOLOGIES

### Introduction to Robotics

Robots are performing more and more tasks to help humans. Learn about communicating with robots, giving instructions and programming, as you use the Bee Bots and/or Edison robots to complete different challenges.



## BIOLOGICAL SCIENCES

### Life Cycles

Discuss and explore what defines a living thing and identify different life stages of freshwater invertebrates in a wetland water sample. Best taught in Term 1 and 4 for greatest waterbug diversity.

### Secret Life of Plants

Dissect seeds, identify parts of plants, and investigate germination to explore the secret world of plants. Plant your own bean seed to keep at school or take home.

### Dinosaur Detectives

Become a palaeontologist and examine our special fossil collection. Make casts of real fossils and discover what we can learn from ancient teeth and claws.

### Meet Mr Bones

Learn to name bones in the body, explore what makes bones strong, identify and investigate real skeletons of animals.

### Digestive System

Follow food along the digestive tract, and learn about how we taste, digest, and move food along our gut. Make poo to understand why it is important to eat enough vegetables. *Students are given the opportunity to touch real animal tongues and stomachs!*

**Book your school incursion now!**

[www.swinburne.edu.au/primesci](http://www.swinburne.edu.au/primesci)

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**Incursion Cost and Details**  
 PrimeSCI! interactive classroom lessons are designed for maximum hands-on participation. Sessions are held at your school or online.

## Fees for PrimeSCI! Incursions

### Regular On-site Incursion (1hr)

\$510 + GST for 2 sessions of the same topic (minimum)

\$255 + GST for each additional session (up to 5 per day)

## Teacher Professional Learning

PrimeSCI! offers professional learning workshops for primary school teachers to help with the delivery of science, technology, engineering and technologies subjects in the classroom. Join our professional learning sessions or book a science workshop for the teachers at your school. Contact us to find out more.

Science				Digital Technologies
Chemical Sciences	Physical Sciences	Earth & Space Sciences	Biological Sciences	
Objects are made of materials that have observable properties.  <b>Bend Stretch Twist</b>	The way objects move depends on a variety of factors including their size and shape; a push or a pull affects how an object moves or changes shape.  <b>Toys in Motion</b>	Observable changes occur in the sky and landscape; daily and seasonal changes affect everyday life.  <b>Our Blue Marble</b>	Living things have a variety of external features and live in different places where their basic needs, including food, water and shelter, are met. <b>Life Cycles</b> <b>Secret Life of Plants</b> <b>Dinosaur Detectives</b> <b>Meet Mr Bones</b> <b>Digestive System</b>	Identify and explore digital systems (hardware and software components) for a purpose.  <b>Introduction to Robotics</b>
Everyday materials can be physically changed or combined with other materials in a variety of ways for particular purposes. <b>Bend Stretch Twist</b> <b>Mix and Unmix</b>	Light and sound are produced by a range of sources and can be sensed.  <b>Sound and Light</b>	Earth's resources are used in a variety of ways.  <b>Our Blue Marble</b> <b>Earth's Resources</b> <b>Mix and Unmix</b>	Living things, grow, change and have offspring similar to themselves.  <b>Life Cycles</b> <b>Secret Life of Plants</b> <b>Dinosaur Detectives</b>	Follow, describe and represent a sequence of steps and decision (algorithms) needed to solve simple problems.  <b>Introduction to Robotics</b>



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