

## Health and PE - The Human Body

The Human Body Gallery is an unforgettable multi-sensory experience for students as they explore the amazing human body. All Human Body Gallery sessions include interaction with real animal organs!

**Meet Mr Bones (Prep - Year 2)** Learn to name bones in the body, explore what makes bones strong, and identify real skeletons of animals in this popular session.

**Digestive System (Prep - Year 6)** 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. Touch real animal tongues and stomachs!

**Breathing System (Years 3 - 6)** Understand the breathing process. Go through a breathing obstacle course, explore inhalation and exhalation, and investigate your own lung capacity. Get up close with this spongy organ and watch it inflate!

**Circulatory System (Years 3 - 6)** Learn about how the heart works non-stop, study dissected lamb hearts, and listen to your own heart with a stethoscope. Find out about heart diseases and the medical procedures involved.

**Our Brain (Years 5 - 6)** Dissect this delicate organ and be amazed at how this jelly-like structure is responsible for the way we work, think and behave.

*\*A surcharge of \$20 is incurred per lesson for lamb brains.*

## Introduction to Robotics

**Beebots (Prep - Year 1)** How do we speak to robots? Students communicate with the robots and give them instructions to complete simple tasks. An introduction to robotics and programming for students.

**Edison (Years 2 - 6)** How do we speak to robots? Students communicate with the robots and give them instructions to complete simple tasks.

**Lego NXT (Years 3 - 6)** Supported by KIOSC Discovery Centre

An introduction to robotics and programming.

Limited availability.



## Extension Programs

Contact PrimeSCI! for more information on our Extension Programs, designed for teachers who are looking for something more challenging to complement their classroom teaching.

**Australian Biodiversity (Years 3 - 6)**

**Crystal Chemistry (Years 3 - 6)**

**Demystifying DNA (Years 5 - 6)**

**Forces of Nature (Years 3 - 6)**

## Professional Learning for Teachers

Gain confidence by updating your knowledge and learn how to deliver powerful science in the classroom.

At PrimeSCI!, we are passionate about what we do and we want to share our enthusiasm for the teaching and learning of curiosity within the classroom.

PrimeSCI! offers professional learning workshops for primary school teachers to help you in the delivery of science, technology, engineering and mathematics (STEM) subjects in the classroom. Join our STEM professional development sessions at Swinburne Wantirna, the Australian Synchrotron (**\$282 per person, ex. GST**) or book a science workshop for the teachers at your school. **Prices start at \$800 (ex. GST)**

### INCURSION COSTS & DETAILS

PrimeSCI! interactive classroom lessons are designed for maximum hands-on participation. Sessions are held at your school and run for one hour (with 15-minute changeover between lessons). We require ONE classroom to set up and teach all sessions. The maximum number of students for any one session is 30.

The cost is \$225.00 (plus GST) per hour, plus a \$20 booking fee (2-hour booking minimum per topic).

*Bookings cancelled less than 7 days prior to the first session may incur a cancellation fee.*



2018 Primary School Science Incursions



**Bringing curiosity to classrooms!**

**All lessons support the Victorian Curriculum**

**Book your school incursion now!**

(03) 9210 1969

[primesci@swin.edu.au](mailto:primesci@swin.edu.au)

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

[facebook.com/primesci](https://facebook.com/primesci)



## Physical Sciences

**Toys in Motion (Prep - Year 2)** 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. Link scientific language to familiar experiences and observations.

**Sound and Light (Prep - Year 2)** Students learn to explain how they see and hear. Through hands-on activities, the students explore how light and sound travel, bounce and move through objects. Try to catch a rainbow!

**Forces in Motion (Years 3 - 4)** This powerful, fast-paced session will frame students' understanding of forces and how they interact. Learn the role of gravity, friction and magnetism in making objects move faster than the speed of sound.

**Hot! Hot! (Years 3 - 4)** Learn what heat is, the different ways it is produced, and how heat can be transferred through cleverly designed activities and exciting demonstrations. This session covers everything your students need to know about the physics of heat.

**Light and Colour (Years 5 - 6)** Explore the magic of light as students catch, bounce, bend, split, and focus light. Students will love using the assortment of torches, mirrors, and lenses.

**Electric Circuits (Years 5 - 6)** This fun-filled session bridges simple circuits to the world of complex electronics and robotics. Students learn about electricity and electrical conductivity in the context of atomic structure, and assemble simple circuits with motors, LEDs and solar panels. At the end of the session, students apply newly acquired skills to construct machines that jiggle and dance!

**ReNEWable Energy (Years 5 - 6)** Understand the physics of electricity generation, with focus on how energy is transformed to meet our needs. Use hands-on activities to explore renewable energy technologies currently used in Australia.

## Chemical Sciences

**Bend, Stretch, Twist (Prep - Year 2)** Learn how changing the shape and temperature in materials result in dramatic changes in behaviour. Work with amazing materials like nappies and slime. Highly engaging and hands-on.

**Mixing Matter (Prep - Year 2)** Investigate properties of materials by separating mixtures, and combine different kitchen ingredients to find out if new ones are created. Students learn and experience key chemistry concepts using all senses. **Please advise of food allergies, as sherbet is made.**

**Plastic Fantastic (Years 3 - 6)** Explore the world of plastics and learn which of these are dangerous for storing food. Students make their own plastic and will be impressed by the amazing shrinking plastic. Go beyond looking at plastics as waste materials that can be recycled.

**States of Matter (Years 3 - 6)** Learn about the kinetic theory and the states of matter by engaging all senses. Students gain knowledge from explosions, dancing colour, glowing plasma and temperature-sensitive liquid crystals. It's solid, liquid and gas plus so much more!

**Dry Ice Chemistry (Years 3 - 6)** Learn about carbon dioxide in its different forms and experience first-hand the energy of atoms and molecules as dry ice changes states. Fast-paced and activity-filled, students explore concepts of condensation and sublimation through exciting activities.  
**\*A surcharge of \$20 per lesson for the dry ice**

**Physical and Chemical Change (Years 5 - 6)** Explore the differences between physical and chemical change through a series of exciting investigations, and learn to explain how everyday phenomena occur at the particle level.



## Earth and Space Sciences

**Our Blue Marble (Prep - Year 2)** Explore how planet Earth is ideal for supporting life within the Solar System with its unique temperature, atmosphere, and water cycle. Students learn about how planets rotate and orbit, experience air pressure and snow, and make their own planets in a cup.

**Earth's Resources (Prep - Year 2)** What do we dig up from the Earth? Students identify samples from Australian mines and explore the uses of these minerals in our everyday lives. Students make their own recycled paper.

**Our Place in Space (Years 3 - 6)** Learn the latest in space science as students travel into outer space to understand planetary rotations and orbits, model the gravitational effects of our Moon, and use the language of numbers to understand the wonders of our Universe.

**Natural Disasters (Years 5 - 6)** Explore layers within the Earth, tectonic plate movement, and the causes of natural disasters like earthquakes, volcanoes, and tsunamis. Take part in hands-on activities that teach about Earth's mantle layer and its movement.

## Biological Sciences / Geography

**Dinosaur Detectives (Prep - Year 2)** 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.

**Life Cycles (Prep - Year 2)** Discuss and explore what defines a living organism and identify different life stages of freshwater invertebrates in a pond water sample.

**Secret Life of Plants (Prep - Year 4)** Discover the secret of magic beans in this activity-packed session. Students will identify and dissect seeds, and find out how plants can take over the world!

**Freshwater Habitats (Years 3 - 6)** Investigate different pond water samples to identify freshwater invertebrates. Discuss the needs of living organisms, distinguish between living and non-living objects in the pond.