

Science Alive

travelling show

Science Alive presents Western Australia's highest quality science incursions

Our educational programs are not only lots of fun, they are also highly educational and directly related to the Australian Curriculum and Primary Connections topics. Each presentation is designed to enhance teachers' understanding of science topics and create a curriculum overview.

We are highly experienced and award winning presenters who have entertained and educated over 400,000 Western Australian students since 1996.

Kindy to Year 3 Programs (see page 2)

Physical Sciences

PUSH, PULL & MOVE – fun with forces
 NATURE'S ENERGY – forces, energy and change
 LIGHT & SOUND - sensing our world

Earth And Space Sciences

EARTH & WEATHER - environment and space
 WATER – nature's magician

Chemical Sciences

MATERIAL MYSTERIES - objects and their properties

Biological Sciences

THE SENSES - exploring our world
 LIFE & LIVING - animals, plants and change

Year 4 to Year 6 Programs (see page 3)

Physical Sciences

ELECTRICITY & ENERGY - a sustainable future
 ENERGY & CHANGE - nothing stays the same
 FORCES - stop, start or stay
 IN THE DARK? - light and living

Earth And Space Sciences

EARTH & BEYOND - our blue planet

Chemical Sciences

MIND OVER MATTER - objects, properties and uses
 WATER - properties, uses and sustainability

Biological Sciences

LIFE & GROWTH - adapting to a changing world



"Very well organised shows for the whole school. Presentation was fun. Ties in with what we are doing in class and prepares us for future lessons."

Greenwood PS

"The shows were fantastic and tied in beautifully with our Primary Connections program."

Thornlie Christian College

"Your programs are very relevant to the AC and fit so well with our whole school focus on Primary Connections."

Huntingdale PS

(note: Science Alive has no commercial association with Primary Connections.)

COST

Per student	Metro (40km)	\$3.50
	Outer Metro (40-100km)	\$4.00
	Country (over 100km)	negotiable

Minimum charge is \$245 metro or \$280 outer metro

DURATION

Kindy to Yr 3 - 40 minutes
 Yr 4 to Yr 6- 50 minutes

AVAILABILITY

Science Alive is available on every **Thursday** and **Friday** of the school year.

BOOKING

Contact Linda or Mick:
 ph: 08 62783838
 email: scialive@bigpond.com
 web: sciencealive.com.au

February show discount - 50c / student..BOOK NOW

Physical Sciences

PUSH, PULL & MOVE - fun with forces

What makes things move and change? Does shape, weight or type of material affect movement? Explore the pushes and pulls in our lives including air, gravity and toys. Discover that air can push and can be used to fly and power rockets.

Primary Science Understandings

K/PP -Movement, Yr 2 - Pushing & pulling

LIGHT & SOUND - sensing our world

Light and sound bring us vital information about our world. We need light to see and sound to hear and communicate. Discover light's amazing energy, how it is made, how it bounces and makes colour. Investigate the mysteries of sound, how does it travel? What is a vibration? Have a go at making music and be in a rock band.

Primary Science Understandings

Yr 1 - Looking & listening

NATURE'S ENERGY – forces, energy & change

A great overview of junior Physical Sciences. Energy and forces make things change and move. The sun sends us light and heat. These energies make wind and other forces. Uncover the invisible forces of wind, gravity and rare earth magnets, the amazing power of popping chemicals and our own human energy.

Primary Science Understandings

K/PP - Movement, Yr 1 - Looking & listening
Yr 2 - Pushing & pulling, Yr 3 - Heat

Fantastic! Very relevant. It was a great incursion. The kids loved it and were amazed throughout the whole thing.

Light & Sound St Munchin's Catholic PS

Biological Sciences

THE SENSES - exploring our world

All living things need air, food and water. They also need their senses to survive in their environment. We use interactive games to investigate the 5 senses and finish with a little magic.



Primary Science Understandings

K/PP - Being alive

LIFE & LIVING - animals, plants and change

An overview of junior Biological Sciences. We'll look at the importance of water, air and food, living things, their features, adaptations and camouflage. Sorting and classifying different animals.

Primary Science Understandings

K/PP - Being alive, Yr 1 - Living things,
Yr 2 - Growing, Yr 3 - Living features

Teacher comments

"Wonderful, so informative: Great!"

Life & Living Blue Gum Montessori Sch

"Very exciting and relevant. The students were very engaged and excited by the shows, lots of great feedback from students and teachers alike."

Push' Pull & Move Pearsall PS

"It was great! I loved all the things you brought with you. I loved your giant mirror! Your shows promote our STEM focus."

Light & Sound Swan Christian College

Chemical Sciences

MATERIAL MYSTERIES - objects and their properties

An excellent introduction to junior Chemical Sciences. All around us are things made from different materials that have observable properties. Come with us and find out about materials, about mixing, heating, cooling and changing them. Unlock the mysteries of some very strange stuff and finish off with a few big bubbles.

Primary Science Understandings

K/PP - What's stuff made from?, Yr 1 - Different stuff
Yr 2 - Mixing & changing, Yr 3 - Heating & changing

Another excellent 'Science Alive Travelling Show' incursion. The students responded well and particularly enjoyed the audience participation activities.

Material Mysteries Kewdale PS

"I love the repetition. It is such a great way to revise and cement concepts related to the five senses in the Life and Living area."

The Senses PP Carine PS

Perfect! I have organised several lessons already that use your ideas, ie parachutes, helicopters.

Nature's Energy Yr 1, Push, Pull & Move Yr 2 Riverton PS

"All students were very engaged and enthusiastic about the shows. Mick worked well to encourage, entertain and educate the kids. Excellent value for the price too"

Earth & Weather Yrs 1-3 Inglewood PS

Earth and Space Sciences

EARTH & WEATHER - our place in space

The weather has a huge impact on our daily lives. We investigate weather.... what to wear? Explore how water, sun and air combine to make our weather. How does our world change daily, weekly and seasonally? What is the water cycle? Find out about our earth's place in space and how that affects all of us. Blast off with "hands-on" rockets.

Primary Science Understandings

K/PP - Weather & life Yr 1 - Changes all around,
Yr 2 - Water, Yr 3 - Night & day

WATER – nature's magic resource

Be amazed by the incredible nature of water. It can be used in so many ways and has lots of fun properties to discover....flowing, climbing, disappearing, clouds, and BIG bubbles. Water is a precious resource which must be collected, stored and transported for our use. Learn about water pollution and conservation with our interactive river game.

Primary Science Understandings

K/PP - Being alive, Yr 2 - Water

We really loved Science Alive. Students in each age group were really engaged. The teachers across the whole school were impressed and thought the show was a valuable experience! The students learnt a lot, and this streamed out more with their conversations throughout the week. So easy to organise.

Push Pull & Move, Energy & Change Yr.1-6 St Josephs Sch Queens Park



Physical Sciences

ENERGY & ELECTRICITY - a sustainable future

Energy and electricity are crucial in our daily lives. Learn about electrical circuits, switches, conductors, insulators, light globes and heaters. How does a powerstation make electricity? Is coal sustainable? Does it make pollution? Our energy future will include electricity made from solar, wind, hydro, waves, hot rocks and biomass. Finish with the explosive energy in food.

Primary Science Understandings

Yr 5 - Electricity Yr6/7 - Energy

Sustainability - cross curriculum priority

FORCES - stop, start or stay

Why do things roll, fall, bounce, slide, balance, spin or fly? See how forces affect an object's movement. Examine the fascinating forces of gravity, air and water. Find out about friction, flying and spinning.

Primary Science Understandings

Yr 4 - Movement Yr 7 - Changing motion

IN THE DARK? - light and living

Light enables us to see and understand our environment. We'll have a close look at light's energy, making light, laser light, how light bounces (reflects), mirrors, how it bends (refracts), how it makes colour (absorbs) and shadows.

Primary Science Understandings

Yr 5 - Light

ENERGY & CHANGE - nothing stays the same

An exciting senior Physical Sciences overview. Energy basics, sun, food, light, heat, sound, electricity, magnetism, gravity, mechanical, movement and stored energy and forces. Energy transfer and change.

Primary Science Understandings

Yr 4 - Movement, Yr 5 - Light

Chemical Sciences

MIND OVER MATTER - objects, properties & uses

An excellent introduction to senior Chemical Sciences. Explore a variety of materials, their properties (including strength, hardness, absorbency, weight, buoyancy) and their uses. Be intrigued by the properties of liquids, solids and gases and how they change with temperature. Observe change through melting, burning, reacting, dissolving, mixing, heating and cooling. See some future materials and some very strange matter.

Primary Science Understandings

Yr 4 - Material properties & uses, Yr 5 - Solids, liquids & gases Yr 6/7 - Strange changes

WATER - properties, uses & sustainability

Water is crucial to life on earth. Explore the incredible properties of water and its uses. Find out how it is slippery and sticky at the same time, how it makes bubbles, powers rockets and keeps our earth cool. We will help your students understand the basics of water conservation and water pollution with our interactive river game.

Primary Science Understandings

Yr 4 - Material properties & uses, Yr 5 - Solids, liquids & gases

Sustainability - cross curriculum priority

"As always super, stimulating shows that the students talked non-stop about for days! Thank you."

Mind over Matter Yr4-6 Bullsbrook DHS

Earth and Space Sciences

EARTH & BEYOND - our blue planet

An overview of senior Earth and Space Sciences. Our earth's landscape is ever changing. Shifting tectonic plates cause earthquakes and tsunamis. We examine our changing earth and its place in space, the sun, the moon and our solar system. Come and explore the forces that drive the universe and be amazed by the science of rockets.

Primary Science Understandings

Yr 4 - Earth's changes, Yr 5 - Our solar system, Yr 6/7 - Earthquakes & eclipses

Biological Sciences

LIFE & GROWTH - adapting to a changing world

What are the necessities for life? The life cycle. Plants and animals and the differences between types of life forms. Environment and its impact on species and their adaptations. Plants and their reliance on soil and environment. Classification of plants and animals.

Primary Science Understandings

Yr 4 - Plants in action



Teacher comments

"Positive comments flowed from teachers and students. I am particularly grateful for the encouragement that you imparted to the children to enjoy, embrace and investigate science knowledge and skills."

Water PP-Yr 6

Woodlands PS

"A great introduction lesson to Chemistry".

Mind Over Matter Yrs 5&6

Carey Baptist College

"All class teachers expressed how engaging & valid the shows were for the students. You showed many science experiments that inspired the students".

Energy & Change Yr 5-6

East Fremantle PS

"This show is excellent. My students loved every part. We will definitely be booking again."

Earth & Beyond Yr 4-6

Grovelands PS

"Mick presented the information wonderfully. He engaged the students from right at the start and guided them to think deeply about the content and their answers to his questions. He was funny, lively and presented the content in an exciting way. Thank you for coming".

In the Dark Yr 5-6

Santa Maria College

"As usual it was most educational for everyone & entertaining. It is so easy to organise. Friendly and it all works like a dream. Thank you."

Forces Yr 4-6

Edney PS

"Micks enthusiasm engages all of the children. A week later they are still talking about it and come up to me to display their work they have done in the classroom after the shows."

Life and Growth Yr 4-6

Roseworth PS



As well as dealing with the **Science Understandings** for each sub-strand all Science Alive incursions also pay close attention to **Science as a Human Endeavour** emphasising science in our daily lives and **Science Inquiry Skills** especially questioning, predicting and communicating.

Biological Sciences

THE SENSES - exploring our world
Foundation Year - Living things have basic needs, including food and water.
Year 1 - Living things have a variety of external features.

LIFE & LIVING - animals, plants and change
Foundation Year - Living things have basic needs, including food and water.
Year 1 - Living things have a variety of external features.
Year 1 - Living things live in different places where their needs are met.
Year 2 - Living things grow, change and have offspring similar to themselves.
Year 3 - Living things can be grouped on the basis of observable features and can be distinguished from non-living things.

LIFE & GROWTH - adapting to a changing world
Year 4 - Living things have life cycles
Year 4 - Living things depend on each other and the environment to survive.
Year 5 - Living things have structural features and adaptations that help them to survive in their environment.
Year 6 - The growth and survival of living things are affected by the physical conditions of their environment

Chemical Sciences

MATERIAL MYSTERIES - objects and their properties
Foundation Year - Objects are made of materials that have observable properties.
Year 1 - Everyday materials can be physically changed in a variety of ways.
Year 2 - Different materials can be combined for a particular purpose.
Year 3 - A change of state between solid and liquid can be caused by adding or removing heat.

MIND OVER MATTER - objects, properties & uses
Year 4 - Natural and processed materials have a range of physical properties that can influence their use.
Year 5 - Solids, liquids and gases have different observable properties and behave in different ways
Year 6 - Changes to materials can be reversible, such as melting, freezing, evaporating, or irreversible, such as burning and rusting.
Year 7 - Mixtures, including solutions, contain a combination of pure substances that can be separated using a range of techniques.

WATER – properties, uses and sustainability
Year 4 - Natural and processed materials have a range of physical properties. These properties can influence their use.
Year 5 - Solids, liquids and gases have different observable properties and behave in different ways.

Sustainability - cross curriculum priority

Earth and Space Sciences

EARTH & WEATHER - our place in space
Foundation Year - Daily and seasonal changes in our environment, including the weather, affect everyday life.
Year 1 - Observable changes occur in the sky and landscape.
Year 2 - Earth's resources are used in a variety of ways.
Year 3 - Earth's rotation on its axis causes regular changes, including night and day

WATER – nature's magic resource
Year 2 - Earth's resources are used in a variety of ways.

EARTH & BEYOND - our blue planet
Year 4 - Earth's surface changes over time as a result of natural processes and human activity
Year 5 - The Earth is part of a system of planets orbiting around a star (the sun)
Year 6 - Sudden geological changes or extreme weather conditions can affect Earth's surface.

*"Fabulous. The content of the show was extremely relevant in linking the AC Science concepts to engaging learning".
 Carine PS*

Physical Sciences

PUSH, PULL & MOVE - fun with forces
Foundation Year - The way objects move depends on a variety of factors, including their size and shape.
Year 2 - A push or a pull affects how an object moves or changes shape.
Year 4 - Forces can be exerted by one object on another through direct contact or from a distance.
This show can include Yr4 if requested

LIGHT & SOUND - sensing our world
Year 1 - Light and sound are produced by a range of sources and can be sensed.

NATURE'S ENERGY – forces, energy & change
Foundation Year - The way objects move depends on a variety of factors, including their size and shape.
Year 1 - Light and sound are produced by a range of sources and can be sensed.
Year 2 - A push or a pull affects how an object moves or changes shape.
Year 3 - Heat can be produced in many ways and can move from one object to another.

ELECTRICITY & ENERGY - a sustainable future
Year 6 - Electrical energy can be transferred and transformed in electrical circuits and can be generated from a range of sources
Sustainability - cross curriculum priority

FORCES - stop, start or stay
Year 4 - Forces can be exerted by one object on another through direct contact or from a distance.

IN THE DARK? - light and living
Year 5 - Light from a source forms shadows and can be absorbed, reflected and refracted.

ENERGY AND CHANGE – nothing stays the same
Year 4 - Forces can be exerted by one object on another through direct contact or from a distance.
Year 5 - Light from a source forms shadows and can be absorbed, reflected and refracted.
Year 6 - Electrical energy can be transferred and transformed in electrical circuits and can be generated from a range of sources

*"Each session relates very well to the Australian Curriculum. A great mix of relevant science concepts, hands-on opportunities for audience and disguised "fun" activities".
 Our Lady of Mt Carmel School*

Science Alive is popular with teachers because it is.....

- very easy to organise
- interactive
- professionally presented
- inexpensive
- lots of fun



*"The shows have direct links to the Australian Curriculum. Science and Studies of Society & the Environment are covered. They also support our Waterwise Program perfectly."
 Yr 1-6
 Spearwood PS*