

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 420,000 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 our changing world



Every teacher that attended the incursion raved about how engaged and enthused their students were. Thoughtfully entertaining and great value for money.
Banksia Grove PS

So easy to organise, phone call to the office, discuss dates and booked in! Great!
Byford PS

The children absolutely loved the shows. They were engaged, having fun and they are still talking about it almost a week later. It built on things we had covered during the year. I learnt things too!
Brighton Catholic PS

The shows supported, introduced and reinforced many of the concepts being or previously taught. Comments from both staff and students were extremely positive. We will see you again soon.
Hocking PS

COST

Per student	Metro.....	\$3.50
	Outer Metro (50-100km).....	\$4.00
	Country (over 100km).....	negotiable
Minimum charge is \$245 metro or \$280 outer metro		

February shows are 50c cheaper / student....BOOK NOW

DURATION

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

AVAILABILITY

Science Alive is available on Thursdays and Fridays.

BOOKING

Contact Linda: ph: (08) 62783838
 email: scialive@bigpond.com
 web: sciencealive.com.au

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

"Thank you so much for entertaining and educating Balga PS. The students enjoyed the experiments and they were all extremely relevant to what they have learned".

Push, Pull and Move PP-Yr 3 Balga 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 compare them to some incredible animal senses....then 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

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

"Great shows. Absolutely linked to what has been taught. All staff and students were impressed. Some were very disappointed at missing the shows".

Material Mysteries PP-Yr3

St. Joseph's School, Busselton

Earth and Space Sciences

EARTH & WEATHER - our place in space

The weather has a huge impact on our daily lives. Come and investigate weather words, forecasts and.... what to wear? Explore how water, sun and air combine to make 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, evaporating, 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

Sustainability - cross curriculum priority

Recommended by the Water Corporation's Waterwise Schools Program

"Thank you for a great show! Very entertaining as well as educational for the children!"

Water PP-Yr2

Fremantle Christian College

Some teachers' comments

"The incursion was very easy to organise, it was all handled in a couple of e-mails". **Winterfold**

"The students really enjoyed the shows and all staff would like Science Alive to visit again".

Water K-Yr1, Earth & Weather Yr 2 & 3
East Narrogin PS

"Mick was engaging. The way he related conceptual ideas with everyday items was fantastic. WE LOVED THE CLOUD".

Life & Living PP-Yr 4 **West Northam PS**

"Thanks again Mick for another fabulous and entertaining incursion. Everyone was engaged and enjoyed the session"

Nature's Energy Yr 3 **Newman College**

"This was great. The children enjoyed this very much. Very relevant content."

Material Mysteries PP-Yr 3 **Morley PS**

"Many thanks for a fantastic job"

Material Mysteries Yr 1-2 **Aranmore Catholic 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**

"A well presented show, the children loved it and were very engaged in what Mick was doing. Well done on a very successful show!"

Earth & Weather PP-Yr 1 **St John's Primary**



Physical Sciences

ENERGY & ELECTRICITY - a sustainable future

Energy and electricity are crucial in our daily lives. Learn about electrical circuits, switches, conductors, insulators. Discover the basic workings of 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 biomass energy in wheat.

Primary Science Understandings

Yr 5 - Electricity, Yr 6 - 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, magnets, flying and spinning.

Primary Science Understandings

Yr 4 - Movement

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, Yr 5 - Electricity, Yr 6/7 - Energy

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

Recommended by the Water Corporation's Waterwise Schools Program

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



Some teachers' 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 7

Woodlands PS

"Thank you so much Mick. The students and teachers loved it. The pace of the presentation was excellent. See you again".

Mind Over Matter Yrs 5&6

St Kieran CPS

"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 5-7

East Fremantle PS

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

Earth & Beyond Yr 4-7

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

Thank you very much for an educational and fun filled two days Mick. The kids really enjoyed your shows and were trying out the ruler experiment, many rulers are now resting in peace.

Forces Yr 4-6

Aubin Grove PS

"A very interesting and enjoyable experience for the kids. Presenter was fantastic and approachable."

Electricity & Energy Yr4-7

Alkimos Baptist



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 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, including by mixing, 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. These properties 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
Recommended by the Water Corporation's Waterwise Schools Program

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, including water, 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, including water; are used in a variety of ways.
Recommended by the Water Corporation's Waterwise Schools Program

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.
Year 7 - Predictable phenomena on Earth, including seasons and eclipses, are caused by the relative positions of the sun, Earth and the moon.

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 - Energy from a variety of sources can be used to generate electricity.
Year 6 - Electrical circuits provide a means of transferring and transforming electricity.
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.
Year 7 - Change to an object's motion is caused by unbalanced forces acting on the object.

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 - Energy from a variety of sources can be used to generate electricity.
Year 6 - Electrical circuits provide a means of transferring and transforming electricity
Year 7 - Change to an object's motion is caused by unbalanced forces acting on the object.

"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**

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



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