Mad About Science Incursion Brochure Brief

1. A4 Format (printing front and back) folded twice into a final DL size – same as brochures you produced for the last 2 years
2. Needs print bleed and cut lines indicated for printer
3. Style – fun, exciting yet with a professional/educational edge. Similar to the feel of our website science shop [www.madaboutscience.com.au](http://www.madaboutscience.com.au) – colour scheme should be clean and simple, and or www.madaboutscienceincursions.com.au.
4. There needs to be visual interest – graphic elements and pictures to break-up the text

***Front Cover of DL Brochure, include:***

Mad About Science Logo

IN SCHOOLS

*Seriously Fun!*

\*Image\* Students Plus Dry Ice

2018 Primary School Science Workshops & Incursions

**Step Up STEM with Hands-On Workshops**

[www.madaboutscience.com.au/incursions](http://www.madaboutscience.com.au/incursions)

Call Us 1300 302 441 Mon to Fri 9:30 till 3pm

Inquire by email info@madaboutscience.com.au

***Middle Section of DL Brochure (on opening it is A4 size), include:***

“MAD ABOUT SCIENCE LOGO” IN SCHOOLS

Immerse your class in the fascinating world of science, and have some serious FUN!

Our quality workshops are aligned with the Victorian Curriculum, and blend enticing class demonstrations and small-group experiments to facilitate genuine learning.

Our expert workshop facilitators present a range of incursion topics encompassing biological, chemical, earth and space, and physical sciences as well as STEM workshops, from foundation to level 6. During our sessions students develop critical and creative thinking skills, they will ask questions, make predictions and draw conclusions using scientific methods.

The 2018 National Science Week Theme *is Game Changers and Change Makers*. Our Robotics & 3D Drawing Workshops highlight technologies that could have a big impact on the future workforce.

WORKSHOP TOPICS

*CHEMICAL SCIENCES*

**Chemistry Chaos** - Foundation to Level 6

Colour changes, smoke, fizz and foam! Everything in our world is made-up of chemicals: explore interesting polymer chemicals, chemical reactions, reversible physical changes and more. Available in a junior or senior format.

**The Matter Of Matter** - Level 3 to 6

Use the magic of dry ice to explore the three common states of matter - solids, liquids and gasses. From everlasting bubbling fountains to cool chemical fire extinguishers. This session matters! (90 minute format only) Incurs a $20 per day dry ice surcharge.

**Forensic Detective** – Level 3 to 6

Can you crack the case and catch the thief!? Use real forensic science techniques, like PH tests, ink chromatography, glow chemicals, and fingerprint dusting to pin point the culprit. (90 minute format only).

**Super Bubble Science** – Foundation to Level 2

Bubbles are more than trapped air in a film of soapy water. Their exact spherical shape and swirling rainbow colours make them a wonder of science. By this session’s end, you’ll be a true bubblioligist.

**Kitchen Chemistry** – Foundation to Level 2

A fun food workshop challenging you to think about everyday food in a whole new way. Experiment with a variety of food-related chemicals, and you even get to take home a bag of sweet, tongue tingling sherbet!

**Material Science** – Foundation to Level 6

Explore the world around you - sort, classify and test the physical properties of natural and processed materials. Discover how materials can change physically as well as chemically. Mix a material concoction for a purpose, explore the effect of heat on materials, material waste and remake a material into a new product.

*PHYSICAL SCIENCES*

**Forces In Action** – Foundation to 6

From an apple falling to the ground to a car rolling to a halt, forces are constantly at work. Explore gyroscopes, flying tops, friction and inertia during this stimulating, hands-on look at how things move, and why! Available in a junior or senior format.

**Light and Sound** – Foundation to Level 2

Make some waves, and colour your classroom with rainbows. Using a sensory approach learn all about the properties and transmission of light and sound energy.

**Electrical Buzz** – Foundation to Level 6

Lights, noise and airborne propellers. Use snap circuit kits to build exciting circuits using a variety of electrical components including switches, LEDs, resistors and integrated sound circuits. Explore electric motors, electromagnets, dynamos, and energy transformations. Includes a demonstration of how electricity is produced from sun light.

**Simple Machines** – Level 3 to 6

Launch projectiles with D.I.Y catapults, watch motorized gears turn to speed things up, and lift friends off the ground with a super-sized lever. An engaging look at how simple machines make our life easier, now, and in the past. (90 minute format only)

**Light & Colour** – Foundation to Level 2

An engaging investigation into the colourful properties of light. Create rainbows, use chromatography to separate colour in ink, mix colour with light filters and test a whole host of optical instruments.

**Toy Technology** – Foundation to Level 2

Be immersed in the wonderful science of toys. Explore energies, materials, movement and sound. Spin some colour, use magnets to draw, and even make your very own balancing toy to take home. Play has never been so educational!

**Light Senior** – Level 3 to 6

This senior primary workshop takes an in-depth look at the properties of light - within and outside the visible spectrum. Get hands-on with a variety of interesting optical instruments, explore UV light and make a UV detection key chain to keep, watch light energy transform, discover different ways to produce light, including chemiluminescence, and more!

**Heat & Energy** – Level 3 to 6

Explore the properties of heat and other energies in a fun way. Produce useful heat energy in a multitude of ways, including through friction, motion, electrically and chemically. Transfer heat through conduction, measure it and explore the amazing ways in which heat can generate change.

*BIOLOGICAL SCIENCES*

**Living Things** – Foundation to Level 6

This workshop is full of life. Explore objects that have self-sustaining processes like plants, animals and mirco-organisms. Through engaging hands-on activities learn about the difference between living and non-living things, simple life cycles and the bigger picture. Available in a junior or senior format.

**Senses** – Foundation to Level 2

The five senses are given a workout in this engaging session. They are tested, tricked and more.

**The Human Body** – Level 3 to 6

Take a journey through the human body, and explore its parts and systems. Perform chemical experiments to understand digestion, think quick and test reaction speeds, use stethoscopes to listen to the rhythmic beat of your heart. Learn how we are all connected, and made of the stuff of stars!

*EARTH AND SPACE SCIENCES*

**Wicked Weather** – Foundation to Level 2

Air in the atmosphere is always on the move, carrying clouds, rain, and snow around the globe. Model and experiment with these air and water movements; and even erupt your own flurry of snow.

**Natural Disasters** – Level 3 to 6

Explore the scientific processes behind the explosive energy of nature’s fury.

**Global Sustainability** – Level 1 to 6

The phenomenal population boom in recent times has put the earth’s resources under considerable strain. Learn how we can better manage waste and the earth’s life sustaining resources to build a better future for all.

**Earth & The Milky Way** – Level 3 to 6

Space is a vacuum but it is far from empty. During this fascinating workshop you’ll launch into space and explore planets, moons, stars and galaxies. Follow in the footsteps of the great astronomers as you probe the mystery, scale and earth’s place in the universe.

**Rocks & Geology** – Level 3 to 6

It is written in the rocks. Read the changing story of earth and the impact of humans through the pages of rocks. Cast your own fossil, explore and classify rocks and minerals, investigate the characteristics of soil, model the layers of earth, create some explosive lava flows. Everything to enthuse young geologists!

**Water & The Environment** – Foundation to Level 4

Water is essential to life, and is our most precious resource. We use it to drink, for cooking,

washing and hygiene, recreation, industry and agriculture. During this workshop

students develop an understanding and appreciation of the importance and special

properties of water.

*STEM – Science, Technology, Engineering & Mathematics*

**Beebot Robotics** – Foundation to Level 2

An introduction to robots and programming for younger students. With an intuitive interface, colourful beebot will have learners excited about simple sequencing and directional language. Equipment surcharge applies.

**mBot Robotics Programming** – Level 3 to 6

Meet friendly mBOT, a STEM educational robot to learn coding and robotics. Drag-and-drop graphical programming makes learning Arduino easy and crazy-fun! Available in a 90 minute format only at $380 plus GST per session.

**Circuit Board Electronics** – Level 5 & 6

Solder electronic components onto specially-designed circuit boards. Take home your own working electronic device like an alarm, lie detector or game. Maximum 20 students. Available in a 90 minute format only at $480 plus GST per session.

**3D Drawing** – Level 1 to 6

This STEM workshop has you inventing and creating in 3D. Using 3D pen technology, design your own plastic model for a purpose.

**MAD SCIENCE SHOW –** Foundation to Level 6

A jam-packed 60 min show of BIG WOW! science madnness! There's giant smoke vortices, levitating beach balls, flying toilet paper, flour fire-balls, hair-raising electricity, and lots of learning! Suitable for up to 180 students. Price $650 plus GST.

\*\* Incorporate some images or graphics to break up the text \*\*

***Back of DL Brochure (on opening it is A4 size – with 3 x DL sections with one of the 3 parts being the front cover), include:***

DURATION AND COST

Our memorable science sessions come to you. No bus hire, and other costs associated with excursions! Most of our session topics are available in either a 60 or 90 minute format to easily fit around your school timetable.

Costs are calculated per session for a class of up to 30 students. Unless otherwise stated, the workshop prices are as follows:

$220 for a 60 minute workshop plus GST

$280 for a 90 minute workshop plus GST

There is a minimum booking of 3 x 60 minute workshops or 2 x 90 minute workshops – or their cost equivalent. There are cost-saving options available, like splitting 4 classes between 3 sessions. Contact our office for further information on costs, availability and session topics.

Workshops delivered to schools in outer regions incur travel costs. Multiple topics in one day incur a surcharge.

We ask that teachers help with the supervision of sessions: you might be surprised with what you learn too. A perfect professional development opportunity!

KINDERGARTEN SESSIONS

Based on a developmental approach suited to pre-school children, six workstations are set-up to engage children in a variety of open-ended science activities. Science themes such as magnetism, electricity, chemistry, forces, light & colour, and mini beasts are incorporated. Children use the materials and activities at their own pace, supported by the presenter and kindergarten staff. Parent helpers are encouraged, ideally one adult per workstation during a session. The cost is:

$350 for a single 90 minute kindergarten workshop plus GST

$280 for two or more consecutive 60 minute kindergarten workshops plus GST

\*\* Make the below a checklist to incorporate somewhere to break-up text \*\*

Why Choose Us?

* Seriously fun, and engaging
* Lead by science teaching specialists
* Packed full of hands-on experimenting
* Aligned with curriculum outcomes

BOOK A WORKSHOP & MORE INFO

Call Us **1300 302 441** Mon to Fri 9:30 till 3pm

Or email [**info@madaboutscience.com.au**](mailto:info@madaboutscience.com.au)

Or checkout **www.madaboutscienceincursions.com.au**

“MAD ABOUT SCIENCE LOGO” IN SCHOOLS

Postal Address: PO Box 247, Vermont, VIC, 3133

Physical Address: 1A/981 Mountain Hwy, Boronia, VIC, 3155

|  |
| --- |
|  |