



THINK CLUB

EXPANDING YOUNG MINDS

OCTOBER 2018

Think Club Australia provides experiential workshops for the inquisitive, problem-solving, creative and capable primary school child. Our one day, hands-on workshops are enjoyable, fun and interesting.

Monday 8th & Tuesday 9th October 2018
9am – 3.30pm, Sydney Boys High School, Moore Park, Sydney, NSW

BOOKING INFORMATION

To register for our amazing workshops please visit our website: www.thinkclubaustralia.com

1 Workshop - \$110 • 2 Workshops - \$210 • 3 Workshops - \$300 • each additional workshop \$90
Total registration fees are based on the number of workshops booked using the online form.

Please ensure you select both a first and second workshop preference as the first choice cannot be guaranteed. Places are allocated on a 'first in' basis as workshops will fill quickly.

For more information contact us at info@thinkclubaustralia.com

Monday 8th October 2018 - DAY 1 Workshops

EARLY ENGINEERS

Yr 1&2

What are the best designs for building strong bridges, constructing tall towers, firing projectiles and producing the fastest racing cars? Why do some things float and others sink, some things fly and others crash to earth? Discover the answer to these questions and much more in a great day of engineering feats!

BRILLIANT BUBBLEOLOGISTS

Yr 1-3

Are you mesmerised by bubbles and balloons? Want to learn to make awesome balloon sculptures and find out what it's like to be INSIDE a bubble? Spend the day with our resident Bubbleologist learning the secrets of the trade! During a day of hands-on exploration, Thinkers will learn about surface tension, gravity and pressure and will experiment with different ingredients to discover for themselves the perfect recipe for producing monster bubbles. They'll enjoy the best bits of bubbling and ballooning, from blowing them to bursting them and discover lots of amazing science that happens along the way!

GROSS HUMAN BODY

Yr 1-3

Learn about the complexity of the human body and use microscopes and realistic models to look at the incredible workings of the major body systems that sustain your life. Discover how the five senses work and explore many of the bodies gunky substances such as blood, snot, vomit and pus in this hands-on biological workshop. Not for the faint hearted...but so much fun!

CLEVER CODERS

Yr 3&4

Interested in coding? Want to create the next great computer game? Explore coding tools and algorithms in the Scratch language developed by computer engineers at MIT. As its founders say, programming enables kids "to think creatively, reason systematically, and work collaboratively". All equipment supplied, just bring cleverness!

CLAYMATION CREATIONS

Yr 3&4

Love 'Wallace and Gromit' or 'Shaun the Sheep'? Try your hand at making your own Claymation film. Using the Stopmotion/Claymation process, you will story board, animate, edit and finally burn your movie onto a DVD. Have fun unleashing your creativity, honing your writing skills and exploring the technology behind Claymation Creations! All materials are provided.

STELLAR SPACE & ROARING ROCKETS

Yr 3&4

A science workshop that is out of this world! You will have a blast as we shoot for the sky in this full day of hands-on space related experimentation. You will make water rockets fly, learn the Newtonian principles behind rocketry, find out about technologies needed to survive in space and speculate about what the future of space exploration may hold. You will investigate gyroscopes, hold meteorites, see a real space shuttle tile get tested under flame and make a rocket cart to take home.

Monday 8th October 2018 - DAY 1 Workshops

MATHEMATICAL MAESTROS

Yr 5&6

Indulge your passion for all things mathematical. Lose yourself in logic. Immerse yourself in the secretive world of the code-breaker. Explore the intricacies of the five Platonic Solids and be tantalised by the art of tessellation. So much to see, so little time, on this 'tour de force' of mathematical mysteries.

ZANY ZOOKEEPERS

Yr 5&6

Have you ever dreamed of spending a day caring for REAL Australian reptiles, frogs, invertebrates, omnivores, herbivores, carnivores and ectothermic animals? Get your hands dirty alongside our trained zoo keepers and explore a variety of animal husbandry techniques including feeding and nutrition, capture and handling and housing needs. You will interact with a range of live animals in a safe and controlled environment, learning how to handle and care for them as well as discovering fascinating information about their lives.

HANDS-ON HYDRAULICS

Yr 5&6

Design and build a working hydraulic crane! Learn about complex levers, pulleys and movement. Find out what the difference between hydraulics and pneumatics is ... and put this new found knowledge to work as your team designs, engineers and constructs a model crane using timber and other materials. Engineer your design and use the principles of hydraulics to lift and transport a load from one location to another!

Tuesday 9th October 2018 - DAY 2 Workshops

CREATIVE CODING

Yr 1&2

Ever day-dreamed about creating your own computer game? Exploring basic programming tools and algorithms, Thinkers will create computer games in the Scratch Programming & Learning Environment. Developed by Massachusetts Institute of Technology, Scratch is an entertaining way to teach children to write computer programs. All equipment supplied.

SLIMY SCIENCE

Yr 1&2

Experiment with giant bubbles, gooey slime and other gunky substances to explore the wonderful world of science. Do you have what it takes to be a mad scientist? In this exciting day of hands-on experiments you will learn to ask probing questions, test your crazy theories...and get messy along the way!

CREATURE KEEPERS

Yr 1&2

Calling all mini-zookeepers! Do you love creatures? You will spend a day caring for REAL Australian reptiles, frogs, invertebrates and snakes! Get your hands dirty alongside our trained zoo keepers and explore the behaviours, diets, toilet habits, lifecycles and homes of these amazing creatures. This group of Thinkers will interact with a range of live animals in a safe and controlled environment, learning how to handle and care for them.

MAGNIFICENT MACHINES

Yr 3&4

Using LEGO NXT and EV3 Mindstorms robotics, children will learn to build and program machines that can perform a variety of entertaining and increasingly more challenging tasks. Activities include Olympic athlete, Sumo battles and Wacky races. Suitable for beginners and intermediate levels of robotics experience.

FASCINATING FORENSICS

Yr 3&4

Ever wondered how a scientist can become a super sleuth? Immerse yourself in the intriguing world of forensic science including a CSI workshop, DNA extractions, fingerprinting, and other amazing crime solving techniques.

EXTREME ENGINEERING

Yrs 3&4

Are you fascinated by how things work and get a 'buzz' from creating your own models? Join us for a day of extreme engineering during which you will design and build a range of machines, including a catapult, a slingshot racing car, a propeller plane and a straw rocket. Fine tune your design through rigorous testing and develop a clearer appreciation of the scientific principles involved.

LEGENDARY LINGUISTS

Yr 5&6

The Egyptian, Greek and Roman cultures have each played a significant role in shaping Western Civilisation. Their alphabets and use of language were foundational for the development of our modern languages, their ideas have shaped our modes of government, form the basis of our philosophical canon and infuse a multitude of other aspects of our modern lifestyles. Immerse yourself for a day in the fascinating ideas of the ancient world, learning to decipher hieroglyphics and beginning to appreciate the majesty of the Latin language which is the root of much of our English vocabulary.

MASTERFUL MOVIE-MAKING

Yr 5&6

Loved the Lego Movie? Want to be the next big 'YouTube' sensation? Ever dreamed of one day making it as a Hollywood director? Spend a fun-filled day learning the skills of digital animation and producing a take-home DVD of your very own Lego mini-figure movie. Devise the storyline, shoot the action using the latest computer software and digital cameras, then create your own soundtrack to accompany the action.

CHEMICAL CONCOCTIONS

Yr 5&6

Fascinated by what makes something froth or bubble, while other substances dissolve, rust or ignite? Enjoy a day of experimentation as you concoct potions, analyse chemical reactions and build models of different molecules. Learn about the incredible properties of different everyday compounds and explore the strange behaviours of the amazing elements that make up the periodic table. A hands-on day of experimental chemistry.