

The **BRAINWAVES** Club



Term 1 2021: DinoMites – Years 1 and 2
Venue: Canberra Girls Grammar School, Grey Street, DEAKIN
Term Fee: \$285

Let's Explore!

This term, the DinoMites will go on a journey to explore the world around them. Each session will be action-packed with guided discovery, open-ended exploration, experimentation and interactive activities in which they will either work individually or collaboratively with other like-minded children. Club members will be given opportunities to extend themselves by expressing and developing their own ideas, through exposure to theory and research, and by building new knowledge, interests and ideas. DinoMites will be supported by their club leader to extend their level of thinking and develop their metacognitive skills and social awareness.

Meeting 1: Incredibly Interesting Insects

Focus: Biology

They are everywhere you look - working, flying, crawling...millions of them in clear sight! What are they doing? How do their bodies work? The science of small living things is a source of wonder for young and old alike. In this meeting the DinoMites will look at some creepy crawly critters and their anatomy. Have you ever wondered what the difference is between a bug and a beetle? Through careful observation, detailed drawing and exploration of models the DinoMites will investigate some incredibly interesting insects.

Meeting 2: Wonderful Water

Focus: Chemistry

Water – solid, gas and liquid; saltwater and freshwater. It is all around us, and even in us! Did you know that two-thirds of the Earth's surface is covered with water and that blood is 90% water? What are some of the properties of water and why is it so important? Today we will explore H₂O in all its forms and see if we can plumb the depths of this amazing chemical composition.

Meeting 3: Amazing Armour

Focus: History, art, science

Armour - it's been in fashion from the time of the dinosaurs and all the way through to the man-made versions that we have seen throughout history. Even Ned Kelly got in on the action! So, what is so good about armour? Is it still around today, or it is out of date? In this session the DinoMites will explore ways in which animals use armour to protect themselves, noting its important qualities. We will consider the similarities and differences between animal armour and man-made armour and even have a go at making our own piece of armour.

Meeting 4: Let there be light!

Focus: Physics, optics

What is this thing called light? How does it work? Let's open the door on optics to explore this wonderful phenomenon. The DinoMites will become little scientists to explore some of the amazing properties of light. Refraction, reflection, rainbows, food for plants...light can be useful in many different ways. Today we will investigate how we use light, how it can trick us with illusions, and just how our eyes use light to sense the world around us.

What to bring:

Please bring a notebook and a well-stocked and labelled pencil case (containing writing pencils, sharpener, eraser, coloured pencils, textas, scissors and a glue stick) to each meeting as well as a hat, drink and snack for the break (no nuts please).

About the Club Leader: Suzanne Molison

Suzanne is a familiar face in many ACT schools, teaching the full range of primary school subjects. Her particular interests are in geology, biology and the other life sciences. She enjoys looking for fossils and learning about dinosaurs, as well as exploring new technologies, such as VR (virtual reality) and drones. She is committed to ensuring that each student is able to do or learn something completely new each session.