

The **BRAINWAVES** Club

Term 2 2021: DinoMites – Years 1 and 2

Venue: Alphington Grammar School

Term Fee: \$285.00

Let's Explore

DinoMites have totally amazing minds – they are somewhat like electrified and buzzing sponges; ready to absorb and process the world around them at lightning speed. That's why they are also ready to open their ears, eyes and hearts; trek into the wild wonders of nature, explore a picture from a myriad of perspectives and reinvent the wheel using things we all tend to discard. DinoMites are about to embark on a great exploration of the world around them. DinoMites, pack your binoculars, your notebook and specimen jars and get prepared to for an action packed and exciting term!

1 May

Meeting 5: Foaming Monster

Focus: Science

Roar!! Hope you don't scare easily! We are going to make our own foaming-mouthed or fire-breathing monster with the help of some chemical reactions. To understand more about chemistry, scientists have classified chemical substances and the many possible chemical reactions that can take place between these substances. In this meeting, we will look at acids and alkalis, and explore the reactions which occur when they are mixed together.

15 May

Meeting 6: Are You an Activist?

Focus: Environmental Science, Natural Science

Welcome young inventors and entrepreneurs! In this session, Activist Angela and her junior activists will dive into the Pacific Ocean and let the currents carry them out to the Great Pacific Garbage Patch. Here they will be challenged with the problem of how to solve this modern day, very real, ecological disaster. The DinoMites will be called upon to create diagrams of inventions which they believe could solve this catastrophic situation and then present them to the group. Together, DinoMite activists will evaluate which inventions would work best in this treacherous part of the ocean. Next, they will journey to the Netherlands and meet one remarkable young inventor and entrepreneur who IS tackling this problem.

29 May

Meeting 7: Kitchen Kaboom!

Focus: Science – Kitchen Chemistry

One of the first places you see chemistry in action is in the kitchen at home – though you may not realise it at first! Cleaning up a sticky spill with spray? Chemicals are dissolving the stain. Making bread? A chemical reaction is creating gas, making the dough puff up. Ate too much chilli? A glass of milk will neutralise the burning in your mouth – but water will make it worse. We will be experimenting with all these elements to inform our future culinary experiences – who knows, maybe this will inspire our next junior MasterChef!

Please note: No food will be ingested and gloves will be used during experiments.

19 June

Meeting 8: Flippin' Feathers! It's Cold Out Here

Focus: Science - Thermodynamics

Insulation can be found in most houses so that we can stay cozy and warm in our homes at night. Insulating materials are poor heat conductors and trap the heat inside our rooms. And what about animals who live in very cold climates? How do they stay warm, especially while hibernating? They use insulation, too, but not quite like the kind we have in our homes! For example, four layers of feathers provide protection against Antarctic blizzards for Emperor penguins. We're going to waddle into the fascinating world of perfectly warm penguins!

The dynamic DinoMites will need to bring:

- A well-stocked pencil case (this includes grey lead pencils, coloured pencils, coloured textas, sharpener, eraser, ruler, scissors & glue stick)
- An A3 sized scrap book (it should have blank pages)

About the club leader: Angela Fattore

Angela has been teaching primary school children for several years in both Melbourne and Canberra. She studied at the University of Canberra and was a club leader at the Canberra Brainwaves Club. Angela has a passion for the creative arts, such as; music (piano and trumpet) and dance but loves to learn about all things. She has a particular interest in Gifted Education and plans to undertake a Master of Education in the near future.