

The BRAINWAVES Club

Term 3 2021 | DinoMites | Years 1 and 2

Venue: Alphington Grammar School

Term Fee: \$285.00

It's Fascinating!

The world around of us is full of fascinating phenomena – sometimes so fantastic that they appear to be magic! You, DinoMites, have the power in you to unravel the mysteries of the world around us. Put on your thinking caps and get ready to experiment and investigate as you take on the roles of spies, reporters, physicists, earth scientists, authors, inventors and more!

Meeting 1: Dancing colours
Focus: Science - Optics

Can you believe your eyes? Refraction, diffraction, reflection, and absorption – they can decode it all. Just add light and it's amazing what scientific principles you can observe in action! We'll be getting hands-on with a 'spectrum' of experiments to explore these as well as getting to know some important individuals from the past who made all this eye-opening knowledge available to us. Open lids, engage pupils, activate irises and be ready to use your amazing powers of visual perception!

Meeting 2: DinoNews
Focus: Language - writing

Channel DinoMite, the 'positive news' channel, is looking to recruit some new DinoReporters. Reporters will be challenged to look at current news readers and dissect their delivery, content, research and attitude during the news they deliver. After having studied the art of presenting, DinoMite Reporters will research amazing, up-beat news stories from 2017. We will organise and script their story, ready to present in today's positive news broadcast! **Reporters are encouraged to bring a device for recording their news segment.** This is positive news producer, Ang, signing off!

Meeting 3: Bounce, bounce, bounce rest
Focus: Energy transfer, scientific method

Goal! It's sports science and physics time as we investigate the different kinds of forces and energy that influence a ball's bounce. Why does a golf ball bounce less than a ping pong ball, or a tennis ball bounce higher than a basketball? How can you make them move further and faster? And – perhaps most importantly – what's the best and fairest method to use in testing this?

Meeting 4: Psst.... Can you keep a secret?
Focus: Mathematics – Cryptograph

Psst, DinoSpies: Are you curious and interested in real spy secrets? Come and join the GDS (G.A.T.E.WAYS DinoSpies) and learn all about the secrets of codes and ciphers. In this session, we will explore cryptology (how to use maths to keep secret messages) and develop our mathematical skills in pattern recognition, problem solving and deductive reasoning. If

you'd love to work as a spy for the one day or if you just want to learn how to write secret messages with your friends, the GDS is the place for you! Find out how codes and ciphers are different from each other and how to decode other people's secret messages.

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 particular 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 undertake a Master of Education in the near future.