

# The **BRAINWAVES** Club

**Term 2 2021: SciSpies – Years 1 and 2**

**Venue: Brighton Grammar School**

**Term Fee: \$285.00**

**24 April**

**Meeting 5: Science that Sticks**

**Focus: Physics, Magnetism**

Your fridge magnet is fascinating. For years, magnets have captured people's imaginations and we are still learning about how they can help us navigate the world today! These invisible non-contact forces are used in everything from computers to medical devices, and even help us locate where we are in the world. Today we will use the force of a different kind to create our own compasses.

**8 May**

**Meeting 6: Can You Meet the Brief**

**Focus: Engineering, Mathematics**

What do engineers, architects and underwear models have in common? They all like briefs! When you are involved in designing something for someone, the client will give you a set of requirements, including a timeframe and a budget. This design brief is used to direct your thinking. In our meeting today, SciSpies will put their engineering hats on to solve some challenges. Innovation, creativity, determination - have you got what it takes to succeed?

**22 May**

**Meeting 7: Mystery of the Missing Puppies**

**Focus: Chemistry, Genetics**

Oh no! One of Libby's beloved baby golden retrievers has gone missing and she hasn't been able to sleep for nights. The police have recently discovered an illegal puppy syndicate running in the neighbourhood and among the puppies recovered are not one golden retriever but 18 of them! They all look so similar -how can we possibly figure out which of the puppies is Libby's? Today SciSpies will learn about DNA and how to crack the code of life so that they can help to reunite Libby with her beloved pet.

**5 June**

**Meeting 8: A Snapshot in Time**

**Focus: Palaeontology**

Ever wondered how long has there been life on Earth? Or what the very first living thing on Earth looked like? Like a photograph, fossils give us a snapshot into what roamed Earth 65 Million years ago. Like the creatures that made them, fossils also come in all shapes and sizes. Can you match the

fossilised footprint to the feathered creature that made it? As we learn about palaeontology, we will make our very own fossil casts – you will dig it!

**What to Bring:**

Each week please bring a blank A4 notebook and a well-stocked pencil case including:

- ✓ Pens and pencils
- ✓ Scissors
- ✓ Sticky Tape
- ✓ Glue Stick

**Club Leader: Scott Ho**

Scott is a primary STEM and visual arts teacher who enjoys helping children learn through investigative processes. He has recently finished his double degree in science and education with Honours. Scott is often described as a nerd burger and is keen to share his enthusiasm with children. Crystals and minerals were his spark in science, and he hopes to spark curiosity and interest in science within the SciSpies in 2021.