

Term 1 2021: SciSpies Club – Years 1 and 2

Venue: Alphington Grammar School

Term Fee: \$285

(Semester enrolments available for \$570)

Ologist For a Day

6 February

Meeting 1: Radiologist

Radiology is more than just taking an X-ray of a broken bone. Radiology (and Sonography) is the field of medicine that uses imaging techniques to inform and diagnose. But how did we discover ways of seeing what is under our skin? What new imaging techniques have been developed and how are they used to help diagnose and treat diseases? We will become 'Radiologists for a day' and get 'under the skin' of the important role they play in fighting diseases like cancer.

20 February

Meeting 2: Cardiologist and Haematologist

Cardiologists have their finger on the pulse – literally. They study and treat potential problems with the heart muscle, circulation and blood vessels. Haematologists are trained in recognising and treating blood disorders. As a 'Cardiologist and Haematologist for a day' we will examine 'blood typing', how wounds heal, and take a look at our how our cardio-circulatory system works together to keep 'up-beat'... in more ways than one!

20 March

Meeting 3: Immunologist

How does our body fight germs, diseases and viruses? In this session we will look deep into the world of our immune system and discover the microscopic cellular armies that are constantly waging war on potential invaders. We will look at the roles of the various macrophages, T-cells and killer B-cells, and how each of them interact, to not only kill these invading pathogens, but how they learn to 'recognise' an invader should they ever return again.

27 March

Meeting 4: Gastroenterologist

It may sound gross but there is a real science in making poo. How our bodies take food, extract nutrients to provide energy, and excrete waste is absolutely fascinating. In this session we will be 'Gastroenterologists for a day' and track spaghetti on toast from first bite to last... er... well... to the 'end' of the process. In doing so we will learn all about digestion, mechanical and chemical breakdown, and get to the bottom of bodily waste.

What to bring

Each week please bring a well-stocked pencil case (including scissors, good textas and coloured pencils, pens and/or writing pencils, sticky tape or a glue stick) and an A4 notebook.

Club Leader: Jada Himstedt

Jada really enjoys digging deep into the world of Science. She has a mind that constantly is looking for creative ways to discover the reasons why things work the way that they do. This fascination with understanding the 'how' and 'why' has found its way into her career and into her education degree.