



## **Middle School: How the World Works**

On Monday the 11<sup>th</sup> of September, the Middle School students attended an incursion run by PrimeSCI! The Central Idea for the new Unit of Inquiry is "People use their knowledge of forces and energy to create and invent". The incursion served as a provocation for the students' thinking as they learnt about Newton's laws of motion and how forces can be exerted by one object on another through direct contact or from a distance. During the incursion, students took part



in a variety of hands-on learning experiences to discover the different types of forces and investigate how friction and inertia affect motion. The students were thrilled to build their own air powered balloon car!

After the incursion, the students were curious to explore how the motion and speed of the car would vary on different surfaces. They used their understanding of friction to predict that the car

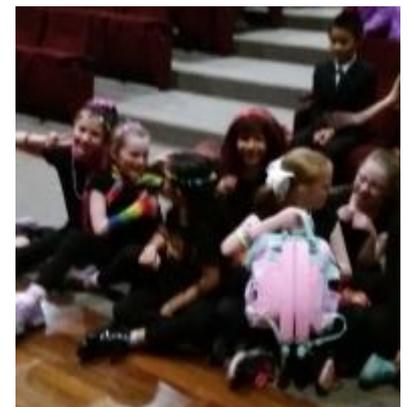
would move the slowest on the carpet. To test their hypothesis, the students conducted races on different surfaces.

As part of the Unit of Inquiry, students will now investigate how simple machines use forces to make work easier. They will also inquire into the circumstances that led to different inventions.



**Waiting for the Big Night Out to Start!** 34GW, 4SB and 4RW delivered a sensational performance of True Colours. Students had worked during their Performing Arts lessons to learn the song, the sign language, the glockenspiel and the recorder. Although it was primarily a concert to showcase student accomplishments in the Performing Arts field, it was also a fabulous conclusion to our Unit of Inquiry - How We Express Ourselves. 34GW,

4SB and 4RW also performed at Assembly last Friday - an equally sensational presentation.





## Year 3 Camp – Phillip Island

September 6<sup>th</sup> – 8<sup>th</sup> Year 3 students headed off on their 1<sup>st</sup> school camp to Phillip Island. On the way, they stopped at the Nobbies and explored the Arctic Journey Centre.

*“I honestly think Phillip Island is one of the best camps I will ever go on. It was spectacular.”*

*Overall the giant swing was the best.” Makayla*

On arrival at camp, students participated in their rotation of activities including the Flying Fox, Giant Swing, Archery and Mechanical Climbing wall.



*“The giant swing was challenging for me because I am a little bit scared of heights. I am proud I gave it a go.” Melinda*

back to school – tired but happy!

*“Camp is very safe and fantastic fun. I think everyone should try to go to camp to experience it.” Oliver*

On our last day, we stopped at ‘Amaze n Things’ where students enjoyed exploring the Magic room, the outdoor maze and mini golf before heading



*“The Flying Fox...OMG! I wanted to go on it one hundred times!” Monique*



## Senior School: Sharing the Planet

### Maths Olympiad

The Maths Olympiad has come to a conclusion. It has been a great learning experience for us all, both for those returning and for those new to the program (Mr. Kijek included). Congratulations to all Maths Olympians – the skills and experiences are sure to benefit you in the future.

The Maths Olympiad comprised of sessions designed to teach students problem solving skills, developing new conceptual understandings, as well as testing out the application these during the five official ‘Olympiads’.

Throughout each session, students were highly engaged in trying to solve worded mathematical problems and collaborative learning was encouraged. The Olympiad also involved us playing challenging group math games such as ‘Math Pack-Man’, ‘Mental Maths Bingo’ and ‘Reverse Naughts and Crosses’, as warm-ups/warm-downs.

For those interested in participating in next year’s Olympiad, it is open to students in Grade 5 and 6. The Olympiad team is selected through a pre-test in the weeks prior to the commencement of the program. All Year 5 and 6 students are encouraged to participate in the pre-test and to have a go at the challenging and rewarding math program if they are selected for the team.

# Bee Incursion!

On the 4<sup>th</sup> of September, all the Year 5 and 6 students participated in the Biodiversity and Bees incursion. We learnt information about bees from two lovely bee experts named Sarah and Leah. They told us that there are 1600 types of native bees in Australia. Eleven of the species don't have stingers. Three species live in colonies and the rest of them don't. The smallest bee we learnt about is 2mm and the biggest is 3cm. The teddy bear bee lives in burrows underground and the blue banded bee is attracted to purple flowers.



Bees are important because bees keep our food chain balanced and if they were to become extinct, there wouldn't be many of the fruits and vegetables that we eat today. Bees pollinate fruits and vegetables such as strawberries and eggplants. Bees also produce honey and no honey means no bees.



We made bee hotels to help the bees find decent homes to live in. We made the hotels with bamboo of different sizes and flowers in plastic bottles. We hung them outside in our school as we want to support bees to live. Bees are becoming endangered and we are now researching what plants we could plant to attract bees to the garden. Save the bees and plant more trees.

By SUMMER, AVA, XAVIER AND MIA 5AH!

## GRAFFITTI WALL

"The graffiti wall is a tool to communicate questions, answers and thoughts. The graffiti wall is connected to our inquiry's central idea which is, *Biodiversity relies on maintaining the interdependent balance of organisms within systems.* So for example if you were wondering something about the inquiry unit you can write it down on the graffiti wall and someone might answer it." by Samantha, PJ and Agam 5RD



## Junior School: How the World Works



In Maths we have explored patterns and discovered they can be made not only with numbers but with shapes and colours. Here are some students who made a bead pattern and their classmates are trying to work out what the pattern is.

We have also been learning about multiplication and have used lots of hands on materials including blocks of chocolate to put objects into groups and arrays. We have explored the link between repeated addition and multiplication before being introduced to the symbol x.



## Cranbourne Botanical Gardens

Our recent excursion to the Cranbourne Botanical Gardens was enjoyed by all the students despite the cold weather. Students had the opportunity to plant a seedling to take home and look at the many different garden examples. They explored the link to our central idea 'All living things go through a process of change.'

We then took a short bush walk to a picnic area where we had lunch and enjoyed the large playground before heading back to school.



## Foundation: Sharing the Planet



On Monday 4<sup>th</sup> of September, the Foundation students began exploring a new inquiry unit with the central idea – 'Animals interact with humans in different ways in different contexts'.

We began by learning about animals that we are all quite familiar with - pets. Peter and his dog Willow came to visit us at school. Peter taught us some songs to help us remember how to approach both a friendly and an angry dog.



Cooper wrote about what he had learned from the incursion. "You stop. You put your hand out then you be quiet. Look down. Walk up to the dog's owner and say "May I pat your dog please?" Then you put your hand out so the dog can smell your hand. Then you go to the side of the dog. Then you pat."

After our introduction, some of the children talked about what they already know about dogs. Kasidee said, "Some dogs can be police dogs and some dogs can be fire dogs. Police dogs can help you. I liked patting the dog. Willow is fluffy. Some dogs are blind."

