



ICT PROGRAMMES AND ACTIVITIES WOODGROVE PRIMARY SCHOOL

September 2016



The production team for the SDMA competition



Brainstorming ideas with peers



Let the creative juices flow:
Collaborative writing stage

Lights! Camera! Action!

Our Media Discovery Club participated in the annual School Digital Media Awards (SDMA) competition

To provide students with a platform to express themselves creatively through videography, our Media Discovery Club participated in the annual Schools Digital Media Awards (SDMA) organised by Ministry of Education. Students took on the roles of directors, editors, writers and the performers in preparation for this competition.

Based on the theme of 'values', our students explored ways to convey their ideas through two 'one-minute' videos in the format of an advertisement.

During this experience, the students displayed the school values of drive and diligence as they toiled away contributing their respective parts towards the making of the videos.

One of our MDC crew, Yuan Jiawen of 6F, reflected on her journey in creating these videos:

"It was challenging at first as the theme was broad, and we had to brainstorm ideas over a few sessions before coming to an agreement as to the values that we wish to highlight in our video. It was a lot of hard work – especially the technical aspects of filming – to create a one-minute video. Thankfully, everyone in the crew helped one another, and this made it more enjoyable and less stressful."

And as they say in showbiz - that's a wrap!



Our Media Discovery Club was also involved in other projects within the school. Here are some of the highlights of our activities:

MDC News Bites

Our budding news crew covered the Chinese New Year celebrations earlier this year. They interviewed teachers, performers and their schoolmates to produce a news clip.

They packaged the story into a TV news format and broadcast it over the school's messaging system, iSeek, in the weeks that followed for the other students to view.

Our MDC crew who covered the Chinese New Year celebration



Teacher interns from New Zealand observing how the MDC crew went about their jobs.



VJC-Canon Exposé IX Playmobil MacroPhotography Competition

To provide students with a platform to express themselves creatively through photography, our school participated in the photography clinic-cum-competition on 2 April 2016, organised by Victoria Junior College, in collaboration with Canon.

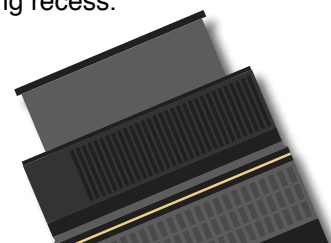
Students enjoyed the experience as they learnt about "Forced Perspectives" – a photography speak for angles of shoot when taking photographs.

Our MDC students were amazed at how a small Lego figure could be magnified many times in a photograph by manipulating the angles of the camera and changing the perspectives of the objects.

In turn, these MDC students looked forward to sharing this skill with their peers for an upcoming "Photography Clinic" during recess.



Smile budding photographers seen here after the workshop





It's all about the angle: a student who seems to be inside the bin!



Forced Perspective: Small sponges appear 'bigger' than the student.

Recess Photography Clinic

Our P5 and P6 MDC crew conducted a Photography Clinic for their peers on 25 May 2016 during recess. The aim of the event was to introduce basic photography skills to their peers and equip them with simple technical knowledge when handling a DSLR camera.

The crew were particularly excited to share their "Forced Perspectives" skill with their peers. Students had a whale of a time during the hands-on sessions using iPad and DSLR cameras as they honed their photography skills.



"Forced Perspective" in photography requires both the subject and photographer to take on different angles when taking a photograph. Here, the subject demonstrates how he positions himself to make the frame appear to be bigger than real life.

Racial Harmony Day & Hari Raya Celebration



Our MDC crew were out and about, roving around the school with their DSLR cameras as they captured memorable moments leading up to our school's Racial Harmony and Hari Raya celebration.

They applied the many photography skills that they had picked up during their CCA. These photographs were compiled and displayed on iSeek for others to view.



Taking a long shot to show the expanse of the stage and school hall

Woodgrove Robo Kids are charged up



Three cheers for our Robokids!
A group shot at the end of a competition.

Our Robotics students are gaining strength as they continue to bag awards.

Take a box filled with more than 500 Lego elements, an intelligent EV3 brick, an infrared sensor, a colour sensor, a touch sensor, an i7 laptop, a Lego Mindstorm programmable platform, wires and connectors, mixed with a pinch of confidence, presentation skills, collaborative learning and self-directed learning, and try, within seven weeks, to design and build a functioning machine that can perform specific tasks in three minutes. What do you get?

You get Woodgrove Robo Kids, our school's robotics club whose mission is to engage and excite students about engineering, science, and technology as well as inspire them to even pursue careers in these fields. Through participation in our 30 weeks Robotics program, students learn to analyse and solve problems and develop technological literacy skills. Recruitment drives were carried out during recess roadshows to entice other students to join the club as these Robo Kids showcased their talents to their peers.

Every year, in August and September, over 700 participating teams from primary and secondary schools and over 3000 students participate in the annual National Junior Robotics Competition (NJRC). This competition is the most competitive event for our Robo Kids every year because of the sheer numbers of teams and the advanced tasks that require our students to identify various criteria, constraints and the specifications at hand. Then students design, build, program and test their robot creations to monitor their own trials, tribulations and success. It is also this period where they exercise perseverance and self-discipline in order to go against all odds.

In order for them to be ready for this competition, the students participated in several others like Innovation, Design and Engineering 2016 (IDE2016, 17 March 2016), Singapore Tech Challenge 2016 (STC 2016, 21 June 2016) and National RoboPreneur Carnival 2016 (NRPC 2016, 2 June 2016). Though we have been participating in NRPC for more than 4 years, we improved in our results, winning Best Robot Performance and Best Creative Design and getting second place for Best Technical Presentation, and third place for Best Mechanical Design this year. Congratulations to our Robo Kids, who had worked diligently to obtain these wonderful results. Congratulations to our trainers as well, who have tirelessly train them to prepare for the challenges. We look forward to their achievement in NJRC soon.



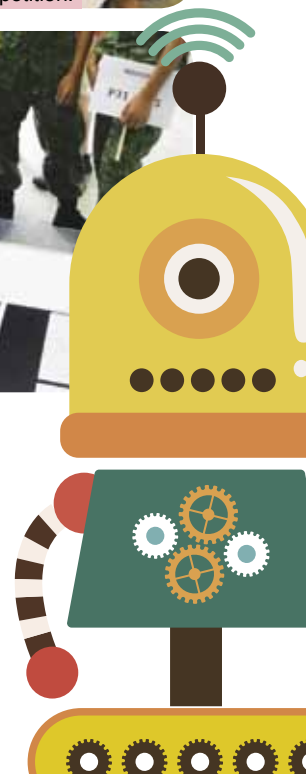
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Robokids getting ready for the competition.



"Ready... Set... Go!" Robokids road-testing their robots.



National Junior Robotics Competition (NJRC)



The best performing team from WGPS



Prepping before the runs



3rd place for Best Robot Performance Award



The National Junior Robotics Competition (NJRC) is an exciting and unique event organised by Science Centre Singapore and Agency for Science Technology and Research (A*STAR). This robotics competition encourages students to develop problem-solving skills, entrepreneurial skills, creative thinking skills and team spirit among the participants through interactive, meaningful experiences. Every year, the NJRC revolves around a specific theme and a challenge is revealed to the students prior to the competition proper. This year, the theme for NJRC is “Waste Management”. The challenges revolve around the use of robots in our waste management systems and how we have to find ways to reduce, manage, and recycle our waste products.

Our senior Robokidz competed against 261 teams from 51 primary schools. After 2 full days of competition, two of our teams were in the top 40 teams overall and one of them attained 3rd place for Best Robot Performance Award! This award is given to the team whose robot accumulates the highest scores in achieving the various mission objectives on the playing field, based on the Surprise Mission (Grand Finals).

Our junior teams took part in the Sumobot competition. In SumoBot, two robots pit their strength and strategy against one another, somewhat similar to the Sumo wrestling sport. Even though this was their first time competing, our team came in as one of the top six primary school teams overall!

Sense-Think-Act

Cyber Wellness takes centre-stage @ WGPS as the school equips students with good online habits

Woodgrove Primary School's cyber wellness community has embarked on a new journey of embracing good cyber wellness practices. The ICT department uses the Sense-Think-Act approach to develop 'caring and responsible' internet users among our students.

Assembly talks are a key feature in introducing fundamental elements of cyber wellness and reinforcing school values such as respect and responsibility. The talks provide relevant and authentic information which online users have to face on a daily basis – such as awareness of online scams, data protection and digital footprints. During these talks, students are engaged through quizzes to hear their thoughts on cyber wellness issues.



Students on a mission: C-Quest (an iPad game) is used to promote Cyber Wellness.

FAVORITE



Smile for the camera: students taking part in the Emoji Challenge on Internet Safe Day

Annually, ICT monitor training is conducted to develop students as cyber wellness ambassadors. Selected cyber wellness ambassadors attended Cyber Wellness Student Ambassador Programme (CWSAP) 2016 Conference on 23 March 2016. The programme gave valuable insights on how good cyber wellness practices were organised in other schools.

Bhuvanewari Padmanathan Surya of 4D is a cyber wellness ambassador and had led his schoolmates in the National Cyber Wellness Advocacy challenge held at Crescent Girls' School. The aim of the challenge was to empower students such as Surya to be the voice of cyber wellness advocacy.



Students staying safe online with their peers.

"I am more confident speaking about the dangers of gaming addiction to my schoolmates. The cyber wellness boot camp taught me how we can prevent addiction to gaming."

Safer Internet Day which was commemorated on 1 March 2016 was used as a platform to engage and teach the importance of being responsible online. iPads were used as a tool to engage students through a cyber-wellness app called 'C-Quest'. The 'C-Quest' app was an effective way in getting students to think and discuss how they could be responsible users of the internet. Students then went on to write pledges as a form of reflection. These pledges were displayed at the lower concourse in Term 2.



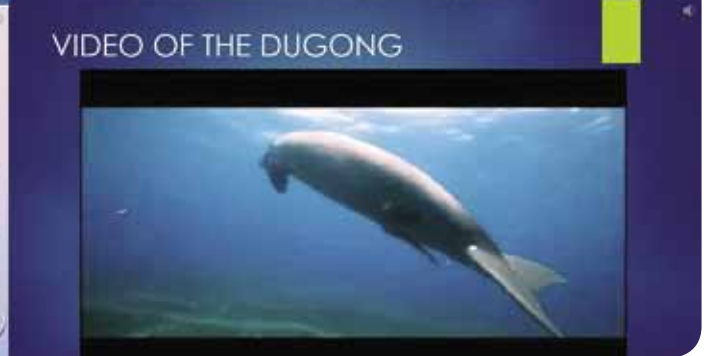
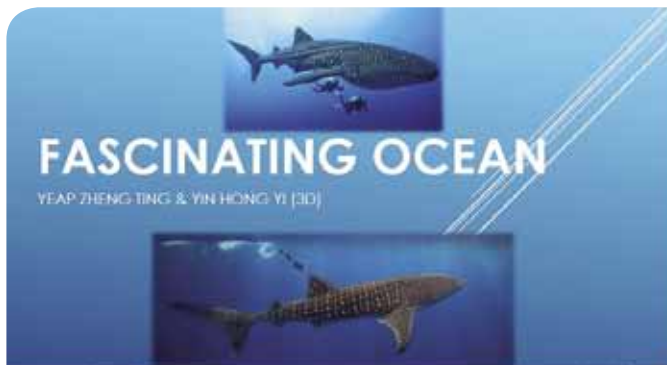
"Pick me, please", an onsite game that quizzed pupils on cyber wellness issues.



Termly cyber wellness talks in the hall to reinforce the message of staying safe online.

Creativity through e-books

P3 students created e-books for Inter-disciplinary Project Work (IPW) based on their experiences at the Underwater World.



Getting to know about the sea friends before we get to explore the Touch Pool and tunnel of wonder!



The captivating tunnel where students can view the marine creatures in their natural habitat.



In Term 2, our Primary 3 students had the good fortune to stay overnight at the Underwater World and made friends with the sea animals when the school organised the annual Living in the Ocean (LITO) sleepover camp.

After their delightful overnight stay, the Primary 3 students returned to school in Term 3 (July) to embark on Inter-disciplinary Project Work (IPW). Their marine life experience was integrated into the ICT lessons where each group created an e-book to capture their research on a chosen marine creature.



Putting on the thinking cap



Harnessing the Future Problem Solving approach in P5 Inter-disciplinary Project Work

The primary 5 students were tasked with a problem to solve : `A plane carrying five passengers made an emergency landing on a deserted island. Given the limited resources on the island and the limitations of each passenger, how were the students to ensure the survival of these passengers. The students were trained in the Future Problem Solving approach. They had to craft out a storyboard before animating the characters using an iPad app.

External instructors were at hand to handhold the students in this project. The end-products, which will be in the form of 2-D animations, will be presented to their peers and shared on the school's iSeek system.



Instructor-led workshops allowed students to sharpen their animation skills.