

## DID YOU KNOW #1

### STEM - Culture of Innovation Creating, Imaging and Innovating

The Enterprise and Innovation Core (EIC) catalyses ideation culture in BBSS. Students are nurtured to create, imagine and innovate, transforming problems into opportunities whilst developing their self-confidence and sharpening their thinking skills. Virtual Reality (VR) Science laboratories and simulations along with escape room concepts are examples of immersive technologies in BBSS to excite and deepen students' engagements in the classroom. Upper secondary students are provided with opportunities to collaborate with partners such as Infineon Technologies to design solutions to real-life issues and in job shadowing. Additionally, with our Scientist-in-School partnership with A\*STAR, interested BBSSians are mentored in science and technology research.

“The VR allowed us to interact with the different parts of the body and to see the enzymes up close. It really makes the digestive system processes much easier to visualise and understand. The app was exciting to use and the learning processes were fun.”

Gabriel Wong Jing Xuan  
Sec 4 (2022)



BUKIT BATOK SECONDARY SCHOOL  
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## DID YOU KNOW #2

### Internationalisation Learning beyond the classroom



Overseas educational trips to Cambodia, Vietnam, Indonesia, Malaysia, amongst others, aim to make the learning of classroom concepts and knowledge applicable to everyday life. BBSS is also active in STEP (Singapore-Thailand Enhanced Partnership), an annual student exchange programme that started in 1998 with our twinning school, Nakprasith School in Thailand. BBSS has also forged good relationships with schools in China. Through the SINO-SIN educational programme with Chongqing Nankai Middle School in 2016, BBSS has established another school partnership in China and we have been actively involved in annual overseas exchange programmes in Chongqing since 2018.



Singapore-Thailand  
Exchange Programme  
(STEP)



Humanities Trip to  
Harbin

## DID YOU KNOW #3

### Our Teachers Sowers of Seeds for the Future



Anchored on the belief that every child is unique and has innate abilities to be developed, our teachers work towards nurturing self-directed and passionate learners.

“BBSS also taught us important lessons in resilience through the school's motto of constantly challenging ourselves to be our best - overcoming odds to become the best versions of ourselves.”

Dr Mark Lim Jian Wei, (Class of 2004),  
Lead Scientist-Energy Research  
Institute@NTU

“The strong belief that the teachers had in me and their passion in teaching us made a huge difference to my own confidence and outlook to life.”

Dr Aishworiya  
Ramkumar  
(Class of 2001),  
Paediatrician@NUH



## AT A GLANCE

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Phone Number  
6566 3121

School Website  
[www.bukitbatoksec.moe.edu.sg](http://www.bukitbatoksec.moe.edu.sg)

School Vision  
A premier school which provides quality  
holistic education to every BBSSian.

How to get there  
Nearest MRT Station  
Bukit Batok  
Bus Services  
66, 66C, 157, 174, 174E, 178, 506, 941, 991

Distinctive Programmes  
Applied Learning Programme:  
Developing Proactive Problem-Solvers  
through Robot Building, Coding &  
Programming

Learning for Life Programme:  
Serving the community through  
Community Youth Leadership (CYL)

### Subjects Offered

Additional Mathematics, Art, Biology,  
Chemistry, Chinese, Computer Applications,  
Design and Technology, Exercise and Sports  
Science, Elements of Business Skills, English,  
Geography, Higher Chinese, Humanities  
(Social Studies, Geography), Humanities (Social  
Studies, History), Literature in English, Malay,  
Malay (Special Programme), Mathematics,  
Music, Nutrition and Food Science, Physics,  
Principles of Accounts, Science (Physics,  
Chemistry), Tamil

### CCAs

Physical Sports:  
Air Rifle, Badminton, Basketball (Boys) Cross  
Country, Rugby (Boys), Softball (Girls)

Uniformed Groups:  
Boys' Brigade, Girls' Brigade, NCC (Land) (Boys),  
NCC (Sea), NPCC

Visual and Performing Arts:  
Band, Chinese Orchestra, Choir,  
Malay Dance, Modern Dance

Clubs and Societies:  
English Language Drama & Debating,  
Media Club, Robotics Club



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Habits of Mind: Gathering Data through All Senses

### CHARACTER DEVELOPMENT:

## Future-Readiness to take on a VUCA World

Walking along our common corridor, one cannot help but notice the eye-catching sign boards hanging from the ceiling. These hard-to-miss Habits of Mind (HOM) visuals are daily reminders to practise good learning habits and thinking dispositions like “Listening with Empathy and Understanding” that every student in BBSS practises to prepare himself or herself for future challenges. Since 2003, HOM has been integral to student character development in BBSS to achieve the outcome of self-directed learners who are self-managing, self-monitoring and self-modifying, and to actualise the school mission – Self Directed Learners with Abundance Mentality.

Starting with the disposition of “Managing Impulsivity”, our Sec 1 students self-manage through phrases such as “Stop, Think, Act”. Effective target-setting and setting holistic learning targets termly is part of developing students' ability to self-manage. Sec 2 students hone the disposition of “Creating, Imagining and Innovating” through designing Math games in teams for Sec 1 students as part of Maths Games Day. Preparation for Maths Games Day takes place during the school's fortnightly Home-Based Learning Day known as Seek-Discover-Learn (SDL) Day. SDL Day provides an opportunity for students to monitor and modify plans.

Every year, Sec 2 students take on an outdoor camp to strengthen their dispositions to “Persist” and “Think Inter-dependently” as they negotiate obstacle courses and work in teams to reach common goals. Graduating cohorts facing the national examinations would apply the dispositions of “Thinking Flexibly” and “Thinking and Communicating with Clarity

and Precision” to good effect as they prepare to demonstrate their learning at the examinations.

HOM dispositions are practised every day – in class, at CCA, during Values in Action (VIA) activities, on overseas trips, and will thus become way of life for all our students. They are reflected upon frequently through platforms like post-activity reflection logs, using the disposition of “Thinking about Thinking (Metacognition)”.



Do Well, Do good, Do together.



Our Habits of Mind posters constantly  
remind our students to be mindful

“Of the 16 HOM, I believe most strongly in taking responsible risk. I believe so because I feel that every choice we make, we have a risk present. If we don't decide to take the risk, we would not succeed and would only remain in our comfort zone. All the celebrities and successful people took risks. Stephen Hawking took the risk of getting laughed at by the world as a scientist with disabilities and the risk of his hypothesis getting proven wrong. Bill Gates took the risk of his business failing and not even being able to return to Harvard University. So, if we don't take risks, we will not be able to persevere to see success.”

Kainos Ng Kai Nuo  
Sec 4 (2022)



## COMMUNITY YOUTH LEADERSHIP (CYL): Young Pillars of Society: To Lead is to Serve

Starting with self-leadership, our Youth Leadership training aims to nurture self-directed leaders who serve the school and community with an abundance mentality.

Youth leaders attend customised training to hone their leadership skills. In the Strengths Explorer Workshop, all students will discover their leadership potential, personal strengths and learn to appreciate their peers' differing strengths to form a team. Our students are able to hone their leadership competencies using their strengths as they lead their teammates in organising events such as the Student Council Camp and School Open House.

As part of their flagship experience, the YL Stretch Programme seeks to develop mental and physical resilience amongst youth leaders through an annual five-day overseas outdoor expedition to countries like Hong Kong and Taiwan. The outdoor component embarks the youth leaders on an adventure to conquer rugged high altitude terrains while the school exchange programme allows them to bond and interact with local students through cultural activities.

The best way to lead is to serve. Youth leaders apply what they have learnt from the YL Stretch experience by organising community service projects such as Project iDonate, Blood Donation Drive and No Shoe Day, developing community youth leaders of the future.

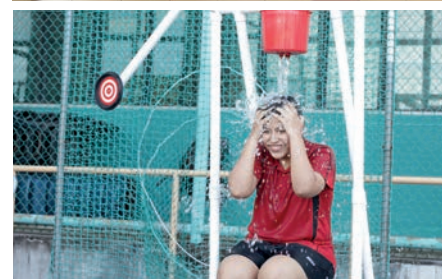
“As a member of the Youth Leaders Executive Council, I got the opportunity to collaborate with different leaders where we work hand-in-hand to organise school wide community projects for BBSSians to make a positive impact through giving back to the community.”



Nur Haziqah Binte Salleh  
Class of 2020



Create, Imagine & Innovate — BBSS Applied Learning Programme (ALP)



Secondary 4 & 5 Multi Level Activities - Project iDonate Dunk Bucket Challenge



BBSSians displaying abundance mentality

## STEM-ALP EDUCATION

### Nurturing Empathetic Problem Solvers!

Have you ever used the robotic tray return machine at a food court or ordered fried rice that was cooked by a robot? Many of such possibilities which has the users' needs at heart can become a reality through our Applied Learning Programme (ALP) which is part of the Science, Technology, Engineering and Mathematics (STEM) education in BBSS. With Empathy as one of our core values, STEM-ALP education envisions to nurture BBSSians as empathetic and active problem solvers. The school empowers students to be creative and

“ALP prepares me in case technology takes over the world, as I would know what to do.”

Chang Wei Liang  
Sec 3 (2022)



reflective problem solvers through design thinking and inquiry. By harnessing technology such as coding, smart sensors, block programming and applying interdisciplinary knowledge from Science, Design Technology and Mathematics, our students are ready to solve real world problems for a sustainable future. At lower secondary, our STEM-ALP programme equips students with block programming skills to control robotic vehicles and arms. Students with keen interest in programming have the opportunity to pursue their passion further with LEGO mindstorms and Virtual Reality (VR) coding members of Robotics club. Students will also have the opportunity to apply the usage of sensors and block programming skills in their science research projects. Selected projects will be showcased at our year end Science Research Innovation Fair to mark the pinnacle of STEM-ALP education in our school.

## ENVIRONMENTAL EDUCATION

### BBSSians - Stewards of the Environment!



We are growing up in a world that faces some of its biggest challenges ever. The huge variety of life on Earth, biodiversity, provides us with all we need from the air we breathe to the materials we use to build our homes. Our over-consumption of natural resources and unsustainable lifestyles are threatening the very future of the planet that we share with millions of species. If we continue to upset this delicate balance, we risk losing all that we have.

We believe that the Environmental Education in BBSS will create BBSSians to be champions of our Earth! As climate change and environmental sustainability becomes national and global issues, BBSS Environmental Education aims to nurture students who are stewards of the environment. Good environmental habits start from school. The Green Ambassadors lead the school in the many sustainability projects to pave the way for our vision to be a Sustainable School. Some of their many efforts include recycling of waste generated in the canteen, using food digesters to turn food waste into fertilisers as well as maintaining a wormery and Hydroponics vegetable farm. Their next big project will be developing a 'Sustainability and Biodiversity' Trail.



“The Geography Learning Centre paves the way for environmentally sustainable classrooms where students can learn in thermal comfort, as opportunities are aplenty in realising the goals of the Singapore Green Plan 2030.”

Anita Chandrasagar  
Teacher (Environmental Education)



## EVERY BBSSIAN AN EFFECTIVE COMMUNICATOR

### @BBSS - Our Vibes, Our Voices, Our Views



The Effective Communication Programme (ECP) is a school wide programme that aims to develop BBSSians to become effective and confident communicators across all subject disciplines and contexts, envisioning that every BBSSian can be empowered to become creative, critical thinkers and self-directed in the pursuits of their aspirations. An Effective Communication Rubric is created to serve as both a learning and reflection tool, undergirded by the school's twin engine of Assessment for Learning (AfL) and Habits of Mind to nurture self-directed learners.

Through the ECP, BBSSians are given opportunities to apply the communication skills acquired in language classes in their involvement across a plethora of programmes in and outside of the classroom. Multiple platforms to nurture student voices include:



@viBBSS, a portmanteau of the terms 'vibes' and 'BBSS', is aimed at empowering young BBSSians to express their views and develop a culture of creativity as RJs and VJs.

@echolites which resonates with our vibrant BBSSians' voices and passions for arts and performances.



@IYUEDO, where our young Chinese enthusiasts develop their talents in content creation and story-telling.



@docents, for young ambassadors to inspire a deeper appreciation of our school, community and national heritage.

## TALENT DEVELOPMENT

### Where Traditions Meet Innovation

#### Chinese Orchestra (CO)

Inventive and imaginative are distinctive hallmarks of BBSS Chinese Orchestra (CO) which has seen them garnering distinctions at the SYF Arts Presentation for the last decade. Our CO students engage in creative expression of music as they challenge themselves to present popular music using traditional instruments both in school and at notable outdoor venues like Gardens by the Bay.



SYF Team A



SYF Team B



Chinese Orchestra - nurturing precision and accuracy in harmony

### Build a Bot! Learn a Lot! Robotics



Robotics rule! Passionate about robotics programming, building and engineering. You will learn to assemble robots, design creatures and program simple and complex movements. We take pride in engaging in many new and exciting platforms including Lego Mindstorms, Micro:bit, Makeblock mBot and HaloCode. Of course, we have fun with drones too! Experiment with ideas, solve dozens of problems and explore many different platforms of robotics - we encourage teamwork and creativity while applying problem-solving skills and technical knowledge in order to learn more about the role of technology in changing our world.



### Stretching our limits with Passion and Confidence National Cadet Corps Sea (NCC Sea)

Being a sea unit, we leverage on various water activities such as kayaking, dragon boating and sailing to build self-confidence, physical dexterity, situational awareness, teamwork and mental resilience.

The goal of every BBSS sea cadet after experiencing the various training activities and events is to leave the unit as the best versions of themselves. We want to develop all of them into strong leaders with good character.

To achieve this, our cadets are given opportunities to challenge themselves and grow from the experience. They take part in activities which are designed to push them out of their comfort zone safely.



National Cadet Corps (Sea) - Attained Distinction

### Pushing Boundaries, Extending Limits Softball

To cultivate the mindset in every player 'To Be Our Best' and 'Together We Can Achieve'. Players will learn to function as a team, leveraging each others' strength to push beyond personal limits. Nurturing sportswomen who are successful in all areas of their lives - sports, academics and personal endeavors, both now and in their future careers.



Team Spirit, Dedication, Perseverance and Gratitude defines this BBSS Softball Team



### From Boys to Gentlemen Rugby

Enter as a boy, leave as a gentleman; an aspiration we envision for all individuals as we undergo 4 years of holistic development with BBSS Red Wings.

We believe in developing our potential in a positive environment while encouraging discipline, commitment, integrity and honour, both on and off the pitch.



One Team, One Dream

