Cambridge xSTEM

A NEW PARADIGM OF EDUCATION

We foster a student's drive and ability to acquire new knowledge. Blending innovation and tradition to support young individuals' development in exceptional ways. Our vibrant community provides a happy, caring, and stimulating environment to all.

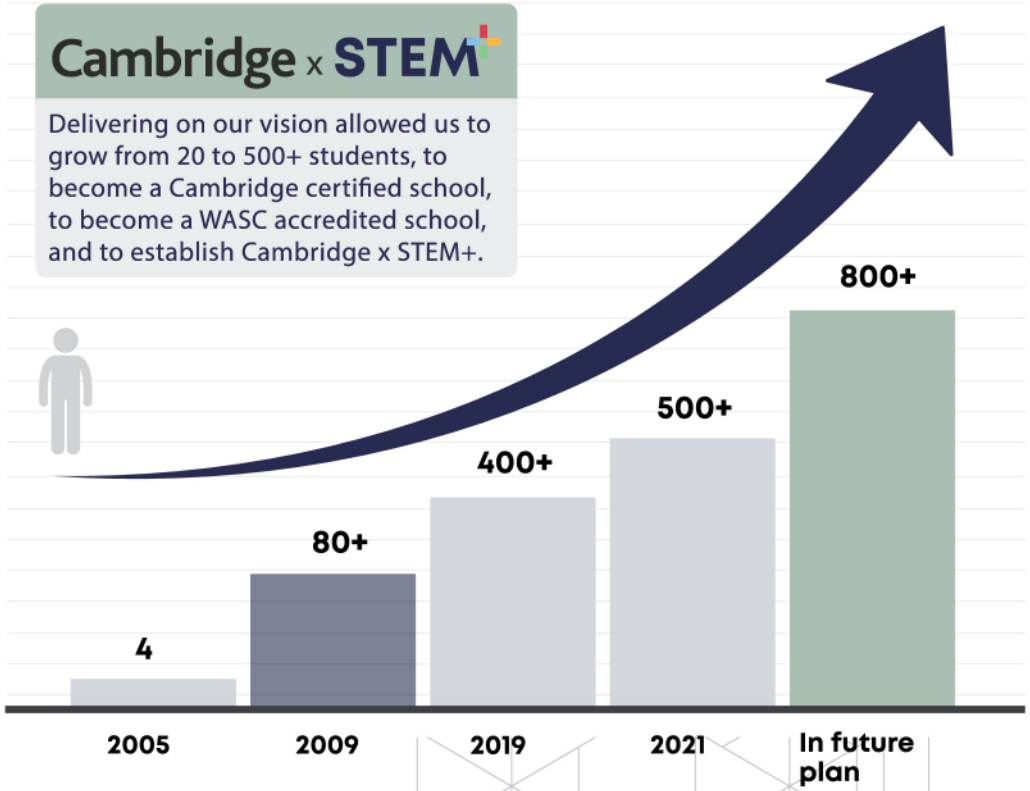
From its inception, our school's vision has been to serve the needs of the local community. Although we have grown as a school, we still hold true to our original values of providing international education with a Thai heart. PBISS is a school that gives academic success, individual growth and emotional development the same level of importance.

In 2021, the school welcomed a new owner, a team of Cambridge alumni and other top university graduates with passion for educational excellence.
With this positive change, our Cambridge x STEM+ curriculum was born.

PBISS International School now offers an internationally recognised education for students from 2 to 18 and is looking forward to further developing its offering to meet evolving students' needs.

Cambridge x STEM+

Delivering on our vision allowed us to grow from 20 to 500+ students, to become a Cambridge certified school, to become a WASC accredited school, and to establish Cambridge x STEM+.



2005 School Was Born

2009 Cambridge Accreditation

2019 WASC Accreditation

2021 The School's New DNA


STEM
INNOVATION
CENTRE

Message from the Management Team

Welcome to PBISS International School

We hope you will get a flavour of what we do from reading through the next few pages.

It is our honour and responsibility to have parents' trust for their children's education. At PBISS, we build strong bonds between ourselves and our families. When we can focus on shared objectives, we are better equipped to achieve the academic goals that have been targeted.

Our current enrollment includes students from over 40 different nations. We prepare each of them for life in the fast-evolving 21st Century. Science and technology are at the heart of our world's evolution, and our students will be ready for the world of tomorrow. Our STEM+ approach combined with the renowned Cambridge International Curriculum prepares students with the mindset and skills needed to navigate their future confidently.

We have a fantastic team of enthusiastic teachers who commit to student-centred approaches to fulfil academic goals. Their efforts complement the curriculum to create a well-rounded and balanced education.

In addition, a student's life at PBISS is not defined by academic results only. We focus on developing a growth mindset and strong personal values in a fun, exciting, and supportive environment.

PBISS has been an environment where students associate learning with happiness. We are a school where children are happy and eager to learn. For us, the key benchmark is that every student should look forward to attending school each day.

We are sure you are looking to find a school where you are secure in knowing that your child is in a 'place to grow' and will gain the highest quality of education. We look forward to welcoming you to the PBISS family.

Yours sincerely,

PBISS Management Team

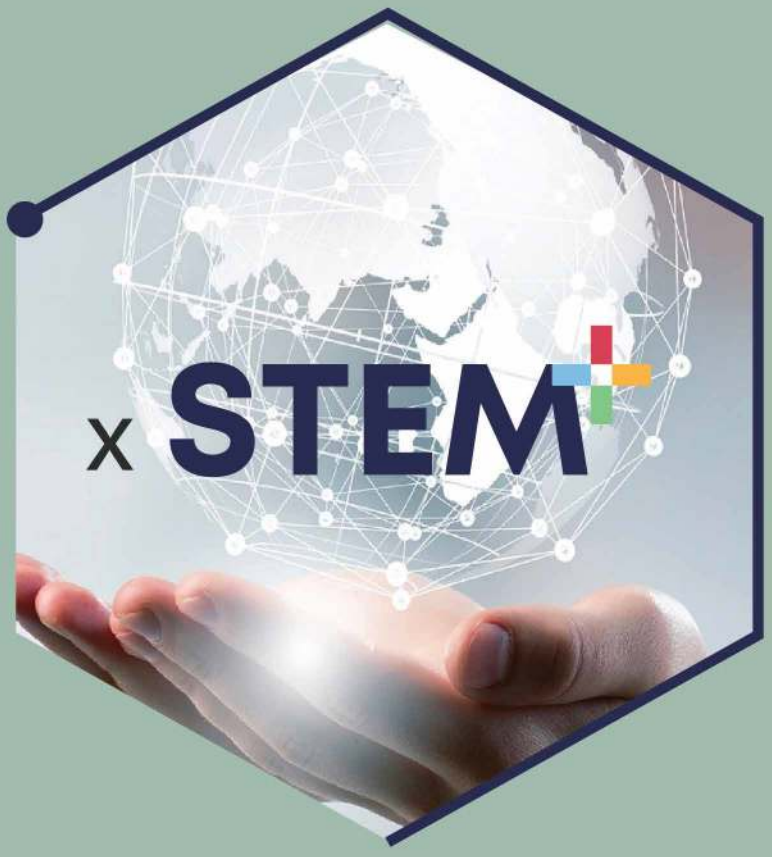
Our Cambridge x STEM+ Curriculum

PBISS curriculum is based around the Cambridge International standard, adapted to blend with our unique STEM+ approach to best prepare our students in the fast-changing 21st century.

While Cambridge curriculum is what we do, STEM+ is how we do it. Our STEM+ approach is designed to meet the ambitious goals we have for our students and implemented through our exclusive partnership with Cambridge alumni.

We integrate our STEM+ vision into students' daily lives. This approach not only puts emphasis on the traditional "STEM" subjects (Science, Technology, Engineering, and Maths) but our "+" also high-lights the application of these elements across the curriculum through subjects such as geography, languages, music, and sports.

Our STEM+ methodology promotes active learning. Our teachers run interactive activities that improve students' education in unique ways through different areas of education including in-class activities, innovation projects, and ECAs. For instance, ambitious projects such as the 21st Century Smart Farm Project taking place in our STEM+ learning ground allow students to develop problem-solving, teamwork, and professional skills that regular classroom lessons struggle to deliver.



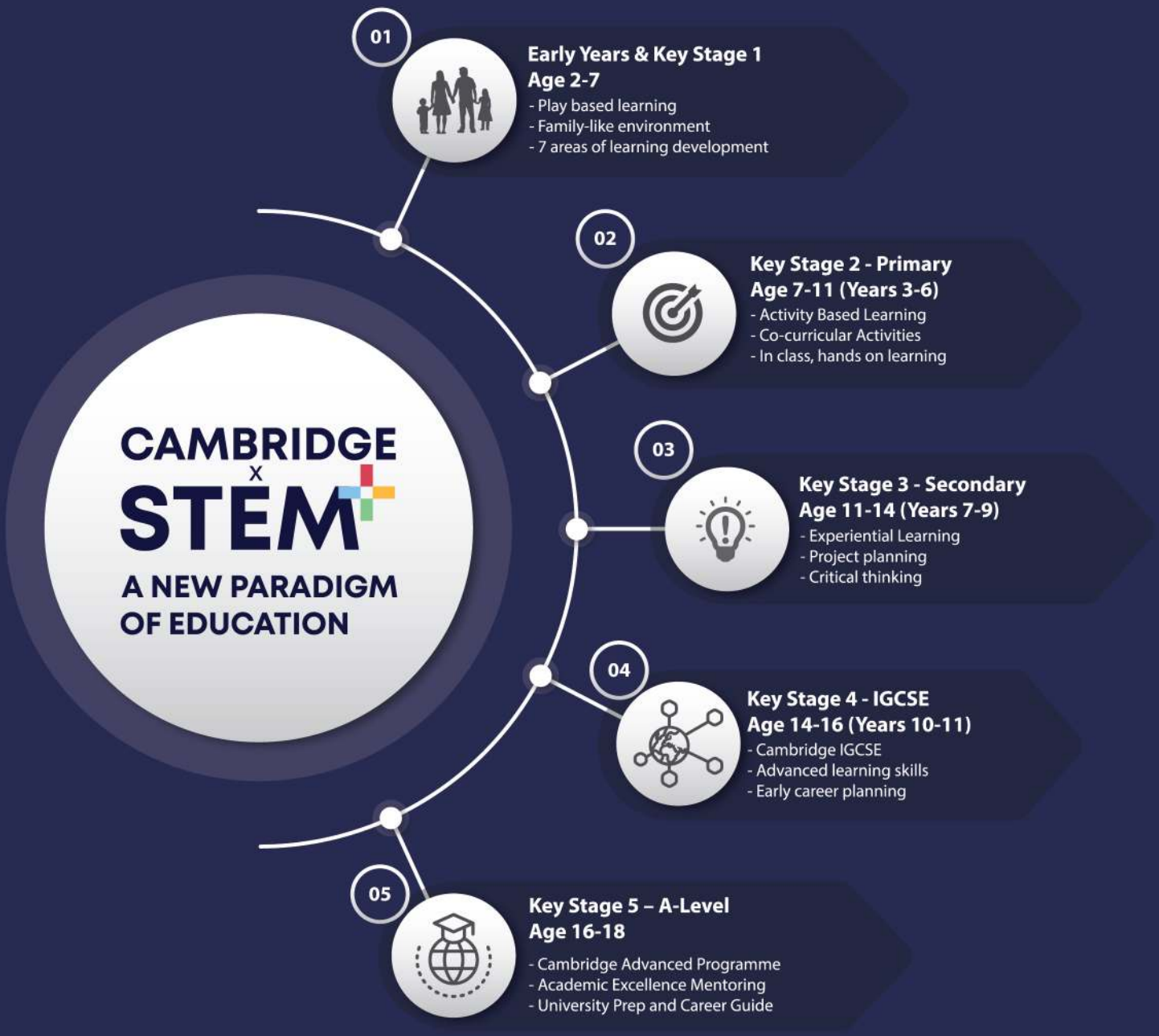
Our Cambridge Curriculum taught by qualified teachers is globally recognised and flexible enough for tailoring to the local context. This flexibility allows us to conduct an international curriculum without abandoning our Thai identity. Adding our STEM+ teaching methods allows us to create a unique curriculum that delivers unmatched added value to our students.

CAMBRIDGE IS OUR PRINCIPLE STEM+ IS OUR DNA

At PBISS we understand how students at different ages require different teaching approaches to bring out the best in their education.
Our Cambridge X STEM+Curriculum is designed to tailor to students at various Key Stages

We believe that what the students learn is as important as how they learn

Our curriculum is crafted by Cambridge University alumni with extensive academic track records including honours degrees, scholarships, academic awards and recognition. Our goal is not only to equip our students with the best knowledge but also to deliver that knowledge through the best teaching approach to make sure that our students have both the knowledge and the skills necessary to thrive in this fast changing world.


CAMBRIDGE
X
STEM
A NEW PARADIGM
OF EDUCATION
01
Early Years & Key Stage 1
Age 2-7
- Play based learning
- Family-like environment
- 7 areas of learning development
02
Key Stage 2 - Primary
Age 7-11 (Years 3-6)
- Activity Based Learning
- Co-curricular Activities
- In class, hands on learning
03
Key Stage 3 - Secondary
Age 11-14 (Years 7-9)
- Experiential Learning
- Project planning
- Critical thinking
04
Key Stage 4 - IGCSE
Age 14-16 (Years 10-11)
- Cambridge IGCSE
- Advanced learning skills
- Early career planning
05
Key Stage 5 – A-Level
Age 16-18
- Cambridge Advanced Programme
- Academic Excellence Mentoring
- University Prep and Career Guide

Fabien Casteloa

- University of Cambridge (UK) and Ecole centrale de Nantes (FR) Alumnus
- 3 Master Degrees: Engineering, Science, Business
- University Scholarship on Academic Excellence

Worrawat Sritrakul

- Imperial College London (UK) Alumnus
- Doctoral Degree of Philosophy
- Experience in Product and Innovation Development

Kasama Limpanukorn

- University of Cambridge (UK) Alumnus
- Award Winning Scholar: Recognition from Oxford University (UK)
- National Champion (Gold) Medal in Academic Research: Recognition from CFA Institute

Giles Larkman

- Headmaster at PBISS International School
- 15 Years of Experience in Cambridge Curriculum

CAMBRIDGE x STEM+ Committee

Christopher Brewer

- Head of Secondary at PBISS International School
- Background in Product design and Engineering
- Qualified science teacher

Dandy Park

- PhD in Engineering (UK)
- Masters in Engineering (France)
- Bachelor's in Engineering (Brazil)
- Extensive experience in Data Science and Machine Learning

Giles Stroud

- STEM+ coordinator
- Background in Engineering and Construction
- Trained STEM Instructor & Certified teacher

EARLY YEAR
Campus

PBISS Early Year campus offers a kids-friendly environment. Our facility is purpose-fully built and designed to fit our unique early year curriculum. We put emphasis on child development at every stage up to the important transition period between the foundation stage and the primary school where educators all over the world struggle to make this transition smooth and efficient for students. Our school connects the first two years of primary school with the early year facility to ensure that our students can thrive in the best environment.

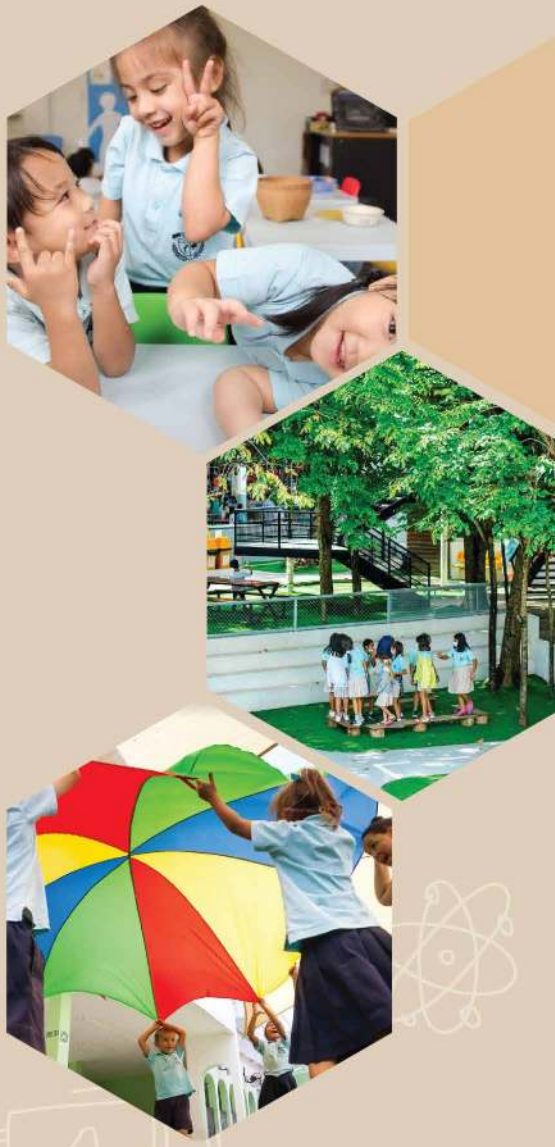
PBISS understands that kids at an early age, especially during the transition period, will develop values that will last with them for a lifetime; so, we aim to be at every stage in this development and pay close attention not through teaching but as a combined package of the whole setting.

Children Development

Our STEM+ methodology promotes active learning. Our teachers run interactive activities that improve students' education in unique ways through different areas of education including in-class activities, innovation projects, and ECAs. For instance, ambitious projects such as the 21st Century Smart Farm Project will allow students to develop problem-solving, teamwork, and professional skills that regular classroom lessons struggle to deliver.

Play-based learning in a friendly environment

In the first five years of life, experiences and relationships stimulate children's development, creating millions of connections in their brains. And that is one of the best ways, if not the best way, children could learn at this age. We put emphasis on integrating experiences and relationships into our way of teaching through play-based learning. In our STEM+ approach, kids will lead what they want to learn through what educational toys they want to play in a family-like environment.



STEM+ GROUND

Our STEM ground is a perpetually evolving real life technology learning centre. Using the various technologies available there, all PBISS students learn key skills and competences. Our pedagogic team continuously develops cross-year and cross-field projects that not only teaches
the Cambridge curriculum through activities, but also helps students learn what traditional classrooms struggle to teach.

For instance, students learn collaboration, planning, and management of resources through structured projects with goals they contributed to define. Students also acquire key leadership skills, for instance learning how to make decisions with incomplete information and create mitigation plans. In addition, the kind of challenges that arise in our real life projects force students to make the most of their knowledge, encouraging them to deeply process and manipulate information in various, personal ways.

STEM+ Projects

The subjects are varied and will challenge students. Among other fields, the STEM+ Ground has the capabilities to welcome projects centred on renewable energies, water treatment and management, agriculture, livestock, biology, radio commu-nication, control-command, mechanical, electrical, and other construc-tion chal-lenges. Our Cambridge x STEM+ curriculum aims to bring each project beyond the boundaries of lecture-based lessons to an activity based education outside the classroom.

THE INNOVATIVE OUTDOOR LEARNING SPACE

The natural way to become independent learners

The STEM+ project puts students in an environment where they have to make sense of the world around them. Students experience multimodal learning, where all their senses and knowledge are mobilised to creatively solve problems. It is also a gateway to the discovery of new fields that curious students can decide to take further with our electives. Finally, expo-sure to our STEM+ ground teaches students to structure their learning. Indeed, with the help of our teachers they learn how to acquire new knowledge from the environment rather than textbooks.

After exposure to our STEM+ ground and its various challenges, students are ready to run their own projects that can become their portfolio for universities or help them win competitions in various fields. In addition, after discovering independent learning skills, students are ready for our unique mentoring programme. Academic Excellence Mentorship will take students' learning skills to another level, with new challenges. It will also show students unique tools and workflows that can systematically be utilised to become out-standing learners.

STEM+ INNOVATION CENTRE

With our STEM+ curriculum, we put focus not only on our methodology but also on the necessary facilities and equipment to help our kids to achieve real global standards. We have the best facility on the island to prepare our students for the future where rapid changes in technology occur in everyday life.

Our computer science lab can be used to teach advanced subjects including programming, advanced coding and 3D modelling. The green screen and light settings in the multifunction room allow us to offer effective videography practice for our students. Our engi-neer-ing corner is a perfect spot for stu-dents to build up their knowledge in engi-neering from electrical systems and creating parts to build a walking robot or flying drone. In our STEM+ room, students can further explore the world of technology. Our kids can get the taste of product design technology with our 3D printers or even practise design techniques with the advanced laser cutting machine.

Our STEM+ Innovation Centre is built out of our strong will to help our stu-dents understand themselves early prior to university level. We believe that a marginal difference in any take-off period will yield a gigantic pay-off over the long-run.

Also for students (especially in Key Stages 4 and 5), our mini-sized meeting rooms are provided to offer the best tutoring area both for groups and indi-viduals. These rooms are also fitted for our STEM+ curriculum as Academic Excellence Mentorship and Career Guidance sessions can be arranged effi-ciently for the students.

INSTRUCTION DEVELOPMENT CENTRE

At PBISS, we have our own Instruction Development Centre (IDC). Our IDC collects information from every one of our students since day one in order for us to deliver our Cambridge x STEM+ curriculum to its best potential. By understanding our students' true traits, it allows us to maximise the learning environment especially in the upper year groups when students require more specific university guidance, academic excellence mentoring, and tutoring. The longer students stay with us, the more we understand our students' insight and the more we are able to customise the learning experience and future guidance to our students. The IDC is where we store our DNA which acts like a backbone of Cambridge x STEM+ curriculum.

Our curriculum is established based on our IDC that contains not only internal students data, but also our internal teaching and even beyond that to include different teaching principles and techniques from around the world such as Montessori or Feedback Loop. Through a process of deep analysis and research, our STEM+ committee, with members who have strong academic backgrounds including a few Cambridge alumni from the UK, has developed the strong and unique Cambridge x STEM+ curriculum.

Key Stage 2

Key Stage 1

Key Stage 5

Key Stage 4

Key Stage 3

With every new piece of data and student activity, the IDC is constantly improving. This allows us to continuously develop our Cambridge x STEM+ curriculum, making sure it never goes out-of-date.


SMART
FARMING

21ST CENTURY FARM PROJECT

The 21st Century Farm is a sub-part of our STEM+ ground. It includes many technologies related to farming and agriculture. For instance, a typical project related to the STEM+ ground would introduce challenges related to irrigation. There, students can understand some aspects of fluid mechanics that are helpful in making technological choices. They can understand how pumps work, which inputs trigger the start and stop of pumps, and which safety elements are necessary to consider when designing the system.

Depending on the focus of the project, the student could also learn more about what are the specifications of pumps, how to read a pump curve, which alternative systems could have been installed, and what are the pros and cons of each. Implications of a choice over another could then be used to discuss the economic aspects, the water consumption aspects, or the design of the electrical system needed to operate the irrigation system. When discussing electrical supply, a study of AC induction motors can lead to a discussion of inrush current and Lenz's Law, introducing magnetic fields etc.

But the discussion could also focus on building a business model and focusing on the economical aspects of a farm running with one watering system rather than another, or proposing ways to improve efficiency of existing systems.

In that sense, the 21st Century Farm is an extremely versatile part of our STEM+ ground. It is used by our academic team to give a concrete dimension to students' learning, showing them how different fields are inter connected while still covering all aspects of the Cambridge International Curriculum.

ACADEMIC EXCELLENCE MENTORING

PBISS offers a unique mentoring programme created by Cambridge Alumni that offers students research-based methods that consistently deliver results to its users.

At PBISS, we look into the core of learning. We believe that what the students learn is as important as how they learn. We put emphasis on learning skills and how they can improve these throughout their years with us.

During their IGCSE education, students learn some key study skills such as how to organise themselves,develop self-discipline and meet key deadlines.

The acquisition of "learning skills" becomes more explicit and is taken to another level during A-Level, tertiary education and beyond.

FABIEN C. Programme Advisor

- University of Cambridge, UK Alumnus
- Learning Framework Expert
- 3 Master Degrees: Engineering,Science, Business

This unique comprehensive mentoring goes far beyond subject-specific tutoring. It is continuous one-on-one training, which guarantees that students are exposed to the tools they need for academic excellence.

In essence, using the tools introduced in mentoring allow students to become experts in selecting and implementing efficient ways of learning in any situation. In addition, the bond created with students allows mentors to support them in other fundamental ways:

- Provide guidance to students about their ambitions and the action plans to realise them
- Discuss student-related matters with parents, acting as a bridge between the academic world and families.
- Career guidance and university admissions counselling.
- Provide decision making support.

Cambridge Advanced Programme

Our advanced year group students require a very specific level of support as they prepare for the A-Level examinations and entrance into universities. For them, we run our signature Cambridge Advanced programme which reinforces their progression over their A-Level years.

Dynamic Learning Experience

This programme not only supports students with high-level tutoring of these advanced subjects but also provides them with unique individual mentoring, career guidance and study skills development. All of which are required to enhance academic performance and help develop the required skills to make a successful transition to university-level education.

Blended Learning:

A blend of virtual learning and classroom learning provided by subject specific educators, allowing students to benefit from unmatched flexibility.

Flexible and E-Learning:

Students study online from our facilities, while benefiting from rigorous mentorship and an enhanced set of library resources to guarantee them exposure to extra preparation materials.

Traditional Classroom:

Students attend intense and engaging lessons with the whole class, in the same way they would have, pre A-level.

A-Level Experience

Facilitating subjects

Languages and Humanities:
- English Literature
- History
- Geography

Science:
- Physics
- Chemistry
- Biology

Mathematics:
- Mathematics
- Further Mathematics

Electives

- Academic competitions
- School paper
- Robotics
- Coding
- Chess
- STEM+ Engineers
- Sports and health
- Languages
- Academic Support
- Music
- Drama / Debate
- Art

Other Subjects (20+)

Interest based, for instance:
- Business
- Sociology
- Economics
- English Language

Many others, contact us for a personalised plan

Uni Prep

Interest based, for instance
- Interview prep
- Finding your call sessions
- Essays prep
- Portfolio design and sourcing
- Identification of best next step
- Application to universities

Our mentors answer students questions anytime, any day, and provide a unique set of research-based learning tools that allow users to make the most of their abilities in any circumstances!

90 %

of our parents say their children enjoy going to PBISS

An Inclusive Culture

Teachers Who Truly Care

A Supportive Community

A Second Family For Your Child

DIVERSE INCLUSIVE COMMUNITY

In addition to the academic pursuits, the PBISS view of education is holistic and celebrates the creative, physical and moral.

Often described as a home away from home, PBISS offers a large, diverse, and supportive community. Every student is encouraged to make positive impacts on PBISS and the wider community.

We care for students from diverse backgrounds and with diverse profiles of character and attributes. The passionate, the all-rounder, the gregarious and the quiet, all thrive at PBISS.

All PBISS students receive care and support on various levels, inside and outside the classroom. Inside PBISS, support can be from their peers, as our students are taught to show mutual respect, to listen to each other, and to help each other. Support also comes from teachers and mentors, who provide personalised support while closely monitoring students' progress and sharing advice to help them thrive. Our teachers are also trained in detecting special needs, which guarantees appropriate levels of support for all students.

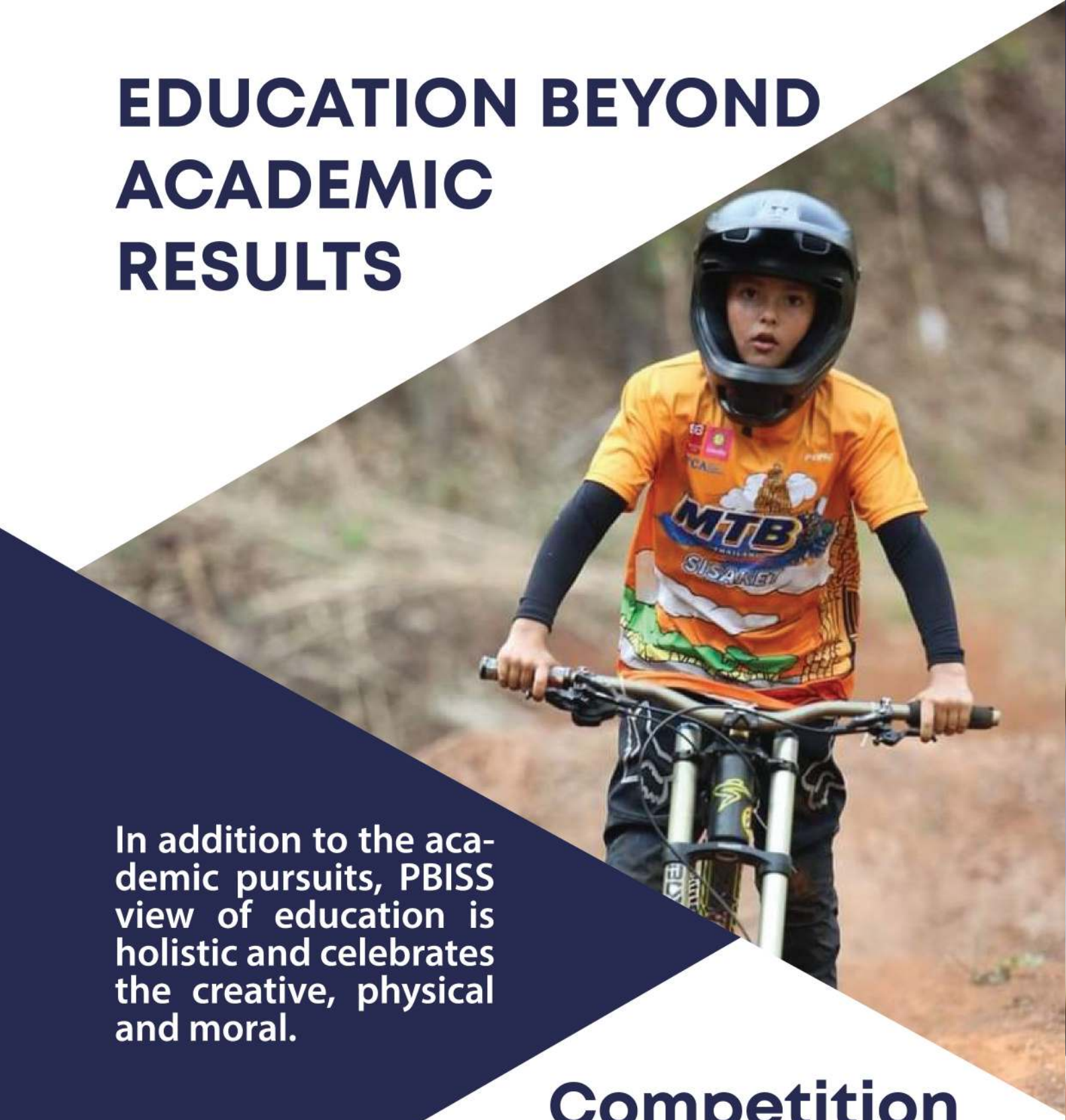
Support can also come from our staff and resources, for instance students stressed from exams can receive specific preparation until they feel confident enough to turn stress into excitement.

Students are also supported outside the classroom. For instance, we view our relationships with families as a partnership. We celebrate students' achievements, but also share goals and challenges with families that become active partners in the essential decision making that shapes children's academic, social, and emotional development.

At PBISS, differences of character and talents are recognised in an environment where achievements are celebrated. This can be both personal achievements or team success. Our PBISS Points and Credits systems reinforce the replication of these positive traits and reward our students for positive application of our values.

This transformative blend of opportunities and support helps students become purposeful and responsible young citizens.

EDUCATION BEYOND ACADEMIC RESULTS



In addition to the academic pursuits, PBISS view of education is holistic and celebrates the creative, physical and moral.

Competition

Competitions are a vital component to the school experience and competitive environments have been proven to further enhance academic performance. Students at PBISS can expect to have the opportunity to engage with a number of internal and external competitions. These can range from the small scale year group activities to the participation in national and international events.

EXTRA-CURRICULAR ACTIVITIES (ECAS)

A range of activities are provided onsite either after school or at weekends. All activities are designed to engage students in key areas in which they wish to explore or further develop their skills. The activities include, but are not limited to, a range of sports such as football and swimming; STEM+ activities such as Robotics Club, Coding Club and Science Club; arts and crafts activities; and the school Drama Club.

Sport

Sport plays a vital role in daily life at school. All students will have a minimum of two PE lessons a week under the guidance of teachers from our PE Department. These lessons are based on the Cambridge International curriculum but include a specific focus on swimming. Participation in these lessons helps to develop key areas such as teamwork, leadership and confidence.

Our goals are to encourage healthy and active lifestyles; nurturing sportsmanship, widening each students sporting experience and enjoyment, creating a passion for active recreation and sport; as well as assisting students in reaching their physical potential.

PBISS MUSIC ACADEMY (PMA)

Music is an important aspect of a student's time at PBISS. Up until Year 9, all students have the opportunity for engaging music lessons with one of the teachers from our Music Department. We also have the PMA onsite.

The PMA offers our students the opportunity to learn musical instruments either during the school day, after school or at weekends. A range of instrument lessons are available from our highly experienced music teachers. Lessons can be taken in either a one on one or group setting.

QUALITIES COMPLETE OUR ALL-ROUNDED EDUCATION

PBISS students are socially capable and confident in their abilities to interact with others. These skills are developed when students work in groups, for instance during our STEM+ activities where they take on various roles in project teams. Students also learn to interact with adults through the relationships they build with communi-ty members such as teachers, assigned personal mentors, or student advisors.

At the same time, we teach students to be well aware of the difference between social image and substance, and the roles both will play in their lives. Students learn how not to take everything at face value and how to differentiate facts from opinions and impressions. Their inquisitive mind is developed in and outside the class-room, for instance when students are asked to develop and communicate ideas through writing and speaking. Or in our Drama Club, where students can experience how image and substance contribute to character.

86.3% of our IGCSE and A-Level students attained A* - C grades in 2020.

The fastest female under the age of 21 in Samui half marathon.

Representing Thailand at the World Robot Olympiad in Hungary.

OUR COMMUNITY

One of the PBISS many strengths is the teacher, who gives every student the necessary time and attention. I have experienced first-hand the benefits of allowing teachers' the time to get to know you as a student and therefore tailor their teaching to your learning habits.

Maya
Our student from A-Level

At PBISS, I have learnt a great deal both soft and hard skill sets that later on help me greatly at the university level. PBISS has offered me plenty of opportunities to explore my interests in a way I never imagined I would receive at other schools which helps me greatly as it helps guide my career goal and help me decide to continue my education in the business field.

Pawin
Our PBISS alumni who went to University College London (UCL)

The important thing I found in my child is that she has a well-rounded understanding of the world, her friends and courses. The teachers at PBISS encourage students to express themselves in their own way.

Khun Ek
Parent of 2 PBISS students

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