

Computing at The Cavendish School

“We need technology in every classroom and in every student and teacher’s hand, because it is the pen and paper of our time and it is the lens through which we experience much of our world”.

David Warlick

Technology is everywhere and will play a pivotal part in our students lives. Therefore, we want to model and educate our pupils on how to use technology positively, responsibly and safely. We want learners to discuss, reflect and appreciate the impact computing has on their learning, development and wellbeing. Finding the right balance with technology, is key to an effective education and a healthy life-style, allowing our students to flourish and thrive as happy members of the community.

Developing Key Skills and Knowledge through participation in mathematics

Information Technology (IT) equips our students to use computational thinking and creativity to understand and change the world around them. The core of this subject is computer science, the students will be taught the principles of coding and programming across a range of digital resources. Building on this knowledge, pupils are prepared to use information technology to create programs and content. A vital piece to this subject is to ensure that our pupils become digitally literate and are able to express themselves and develop their ideas through the safe use of technology, ready for future employment and as active participants of the digital world.

Computing can be used in various ways to help both teachers and students to learn about their respective subject areas. Technology based teaching and learning offers various interesting ways that will make the learning process more fulfilling and meaningful including, educational videos, stimulation, storage of data, the usage of databases, mind-mapping, guided discovery, brainstorming and music (Ghavifekr and Rosdy, 2015).

School priorities and vision

Our school’s mission statement is ‘Enabling the Self’. As an International Baccalaureate School, our school has a variety of values that we feel are essential to our students’ development and journey with us. These are:



The IT curriculum is designed to incorporate all aspects of our IB learning statements in order to create well rounded students. At the end of their school journey, our students will be:

- ∞ **Knowledgeable** about computer sciences, information technology and digital literacy

- ∞ Able to adapt thinking and learning to **reflect** and make relevant connections
- ∞ Become healthier, more educated and better at making **morals** decisions.
- ∞ Able to learn about and **celebrate the difference** in people, places and the world around us
- ∞ Able to develop our critical **thinking** skills
- ∞ Able to understand how to be more **caring** towards themselves and others, and safely use tools to support this
- ∞ Able to **communicate** their thoughts, feelings and ideas in a variety of disciplines
- ∞ **Balanced** in their understanding and thinking about the world
- ∞ Confident in independently **inquiring** about new topics
- ∞ Able to use the tools and content of technology to support **courageous** conversations

References

Ghavifekr, S. & Rosdy, W.A.W. (2015). Teaching and learning with technology: Effectiveness of ICT integration in schools. *International Journal of Research in Education and Science (IJRES)*, 176.