

# NEWSLETTER

## THE FUTURE OF STEM

Dear Parents,

*It is an exciting future for STEM Education here at SIS@Halong!*

*Students and parents can look forward to another exciting area of STEM education in the near future here. Coding and robotics is part of the new STEM 2.0 initiative and looks to be rolled out in Halong in the next 1-2 years.*

*Students had an opportunity to attend a beginners level coding class conducted by Dr. Chong Nguyen who has a PhD in Physics from RWTH Aachen University, Germany (2013) with a specialization in researching Computational Biophysics. He also has a Teaching Certificate at University level and STEM Ambassador Certificate from the British Council Vietnam (2018).*

*Dr. Chong spent 3 days with our students in Halong and taught them the basics of coding, using a basic coding program called scratch. Working in groups students slowly but surely programmed their robots to move and even race and move around obstacles.*

*This latest move follows the KinderWorld International Group's (KIG) initiative to ensure a leading edge in producing students who are well equipped with robotics and coding technologies. The initiative is called STEM 2.0 and follows years of establishing STEM as an integral part of teaching and learning in our schools. STEM 2.0 seeks to make KinderWolrd students KinderWonders who thrive in an environment imbued with science, technology, engineering and maths.*



The key goals of KIG STEM2.0 are:

1. To equip KinderWonders with the basic skills for life in the future powered by STEM
2. To position KIG as a leader in STEM Education with every KinderWonder a coder, equip each one of them with skills to lead projects that can impact their community or the world.
3. To promote our teachers to be leaders in the education fraternity. It will widen the lead KIG has as an educational institution of choice in Asia and beyond
4. To future-proof the KIG curriculum in alignment to Singapore's spirit of education excellence





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**WHY STEM  
IS SO  
IMPORTANT  
FOR  
EDUCATION**

*The world is changing around us. Current jobs are disappearing due to automation and new jobs are emerging every day as a result of technological advances. In this ever-changing, increasingly complex world, it's more important than ever that our youths are prepared to bring knowledge and skills to make decisions, to solve problems and to adapt to this changing world. These are the kinds of skills that students develop in science, technology, engineering, and math - disciplines collectively known as STEM.*

*At Kinderworld, our STEM 2.0 programme has been designed to allow our youths to use their knowledge and skills to solve real world problems. These are the type of challenges that will face us all in the future. Our STEM 2.0 programme will also provide new knowledge in exciting areas of technological development such as Robotics, Coding and Artificial Intelligence. We believe skills developed by students through our STEM program provide them with the foundation to succeed at school and beyond.*







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## ONLINE STEM LESSONS



Stem lessons went ahead online this year as part of e-learning. Teachers had to carefully select projects that were not too difficult and that could be constructed using everyday objects found in the house. Year 2 students are pictured here creating their "Nature Walk" hats as part of their projects for the CREST Awards



## STEM CLUB

Students in the STEM Club explored roller coasters and scientific concepts of momentum, gravity, friction, and energy conservation and pitted their skills against one another to see who could build the best roller coaster.





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