

STEAM TEACHING: a new approach to learning

EIFA teaching has shifted away from learning and regurgitating content to applying scientific skills and design or integrative thinking. STEAM bridges the gap between real life experiences and the classroom and shows how different skills work together.

Our teachers use adaptable and creative approaches to their teaching styles, to inspire and immerse their students.

STEAM TEACHING METHODS

Inquiry based learning

The students develop their questioning, critical-thinking and problem-solving skills. The main purpose of inquiry-based learning is to promote the students' initiative and role in the learning process. They decide what enquiries they want to make, while the teacher's role is to spark their curiosity and prompt reflection.

Our IB students have carried out hands-on experiences on environmental factors affecting plant growth. With a better understanding of these factors and from the obtained results, they will write an assessment essay on how to manipulate environmental parameters, to optimise plant growth.

Problem-based learning

Here, students face a problem they need to analyse and solve. This requires a high level of thinking and encourages leadership, creativity and teamwork. Examples include creating a business plan to solve a societal need, or a marketing strategy to communicate information.

More generally, IGCSE and IB courses require students to take risks, come up with hypothesis and validate them through experimentation.



TIPS AND HACKS USED BY OUR TEACHERS

Real-life scenario

STEAM focuses on learning skills that will be useful in the 'outside world'. Teachers show the application of these skills using real world examples.

Hands-on

The hands-on method is very much part of the real-life scenario, whereby lessons involve practical activities where students create and build something, or design a concept. Students are engaged in their own learning process and feel rewarded to have a final product to evaluate, which they have created.

Our IGCSE students have been entered in the BIE international competition on alternative to plastic: "Rethink food packaging for school and workplace lunches".

Robotics is a fantastic way for students to develop STEAM skills with hands-on collaborative projects. They get the chance to design, plan, redesign, construct, assemble, invent, re-invent, write, present, and compete to see who can create the best robot adapted for different tasks or challenges!

Seamlessly integrating science and maths into projects

The maths and science topics that our students complete are relevant to their current School project. They also relate to real-world scenarios and ultimately serve a purpose.

During mathematics lessons, our students lead sections of the lesson, promoting independent learning and developing communication skills within the subject.

Mathematics enrichment classes

EIFA recognises that for those capable, the provision of challenge and opportunities to extend their learning, enables the development of knowledge and skill of the "next level". This is provided through our enrichment classes, which are a key factor to help these students realise their full potential in mathematics.



For more information
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