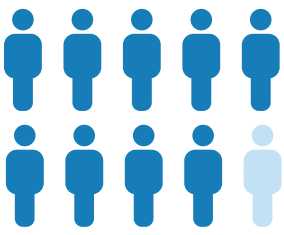
STEM EDUCATION: WHAT STUDENTS AND TEACHERS IN SINGAPORE WANT

A new survey conducted across Asia Pacific including Singapore reveals how we can better engage students and equip teachers in Science, Technology, Engineering and Math (STEM).

IN SINGAPORE



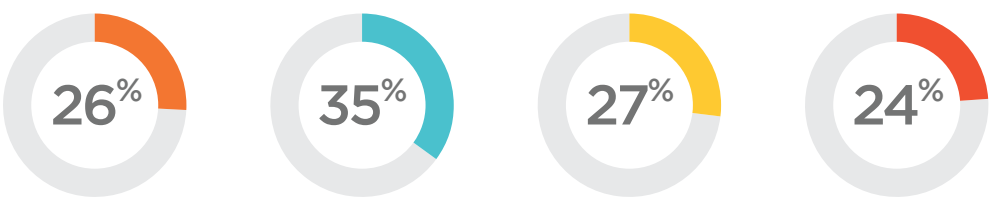
9 out of **10** students like one or more STEM subjects

2 most-liked subjects

78% Technology

73% Sciences

Students are likely to choose to major in STEM-related subjects after leaving secondary school



Sciences
14% Regional

Technology
25% Regional

Engineering
14% Regional

Math
14% Regional

Despite the high interest in STEM locally, there is still a gap in engaging students and equipping teachers

Students want more interactive classes to make studying STEM more appealing such as:

- Variety of hands-on activities
- Access to quality experiments
- Interesting curriculum

4 in **10** teachers

feel that there is an overemphasis on facts rather than cultivating a love for the subjects (vs regional: 36%)

7 in **10** teachers

say that access to quality practical experiments for students would enhance the appeal of STEM subjects (vs regional: 76%)

7 in **10** teachers

feel that learning about how people use STEM subjects in the real world is important in making STEM more appealing (vs regional: 64%)

Solution

Open up pathways to STEM by providing more support to schools and teachers

Make science more engaging for students

Support schools and teachers by introducing more hands-on experiments with real-world application

Support teachers in their development

Provide teachers with better resources and professional development

To learn more about how Amgen Foundation is bringing hands-on biotechnology lessons to classrooms, please visit:

About "STEM Education in Asia Pacific" Survey

The "STEM Education in Asia Pacific" Survey, commissioned by Amgen and the Global STEM Alliance and conducted by an independent third-party research agency, was created to capture what motivates students to study science in the Asia Pacific region, and how teachers perceive STEM-related needs. The survey was conducted online in October 2017, among 1,580 secondary students aged 13-17 and 560 teachers in Hong Kong, Australia, Singapore, China, Korea, Japan, and Taiwan.

Global STEM Alliance
The New York Academy of Sciences

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