



Qudwa 2017 – Global Teachers' Forum Coffeehouse Sessions

“Teaching STEM”
Suzy Manuel
Saturday, October 7, 2017

STEM subjects are hard to teach in a classroom. How to teach these disciplines?
“You can bring music to science. In biology, there are words that are hard to pronounce. Put them in a song and students will learn them.” Suzy Manuel mentioned.

Classrooms can be completely disconnected from reality. Teaching STEM focuses on hands-on science work more than on exams and tests. Science is about doing. New knowledge is changing the perception of science theories.

“Engage your classes to consider the real-world impact and relevance of mathematics and science.” The best method for Suzi is to focus on creative problem solving and application rather than following the prevailing techniques of learning and repeating theoretical concepts.

It is important to promote STEM extra-curricular activities to inspire students.

Teachers strive to make students understand what they are studying as well as stimulating them. “Encourage students to answer, quantify their successful interventions, and evaluate behaviors during their work.” Suzi said. “When something is not understood, stop and resume the problem from another perspective. Come with examples and counter examples until the situation is clear and unambiguous.”

Answers to questions should be discussed in various ways to reveal the logical and decision-making aspects in solving a problem.

The education system needs to be continually transformed to connect it to the demands of the society that is evolving at an increasingly rapid pace. Technology can be harnessed to serve and facilitate education.

