

## FROM SCIENCE TO ENGINEERING: INCORPORATING STEM IN THE ELEMENTARY CLASSROOM WITH INTERDISCIPLINARY APPROACHES

by:

## Jayvie R. Ablazo

Teacher I, Camachile Elementary School

As the world becomes more reliant on skills in Science, Technology, Engineering, and Mathematics (STEM), it is crucial to introduce STEM education to elementary students. This is particularly important since these students will eventually enter a workforce that heavily relies on STEM knowledge. Thus, it is vital to start incorporating STEM education in the elementary classroom. Here are some methods for achieving this:

Utilize hands-on activities: One of the most beneficial approaches to teaching STEM concepts is through hands-on activities. These activities allow students to interact with the material in a way that is both enjoyable and informative. For instance, students can construct simple machines to grasp how they function or carry out experiments to learn about the characteristics of matter.

Relate the concepts to real-life scenarios: It is vital for students to understand the significance of what they are learning. By linking the concepts to real-world situations, students can comprehend the application of STEM in their daily lives. For instance, students can learn about renewable energy by studying the functioning of solar panels and their use in powering homes.

Incorporate technology: Technology plays a significant role in STEM education and can be used in various ways to improve student learning. For example, students can use simulation software to gain knowledge about coding and programming or use digital microscopes to carry out investigations.

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Team up with other educators: Interdisciplinary teaching is often required in STEM education, thus it is crucial to work together with other educators to ensure that students are getting a well-rounded education. For example, a science teacher can collaborate with a math teacher to include math concepts in a science lesson.

Promote problem-solving and critical thinking: STEM education is not limited to memorizing facts, but it's also about understanding how to apply knowledge to solve problems. By promoting problem-solving and critical thinking, students will be better prepared to grasp and apply STEM concepts.

Make learning engaging: STEM education can be challenging, but it doesn't have to be uninteresting. By making it engaging, students will be more motivated to learn. For instance, students can take part in STEM-based competitions or activities that permit them to work in teams to solve problems.

Introducing STEM education in the elementary classroom is crucial for preparing students for the future. Starting early and keeping it interesting and engaging is important to foster students' interest in STEM and motivate them to continue pursuing it in their future education and careers.

References:

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