

Engineering at the Elementary School Level

Exposure

Students at the elementary school level enter their classrooms with a myriad of experiences that provide them with a unique lens by which they view the world. By making students aware of their world and its complexity, educators open the door to applying content from math, science, language, and technology. Exposing students to opportunities that expand their perceptions of their world is a foundation for teaching engineering at the elementary school level.

*What's out there
for me?*

Inquiry and Innovation

As educators reveal interconnected content to students and allow for students to approach their own revelations, we introduce a natural process of inquiry and innovation. Engineering in the elementary school moves students beyond experimentation of classic science curricula to incorporate real-world problem-solving. This is accomplished by understanding what problems are developmentally important to young learners and beginning activity that the highest levels of thinking to work backwards toward attempted solutions.

*Can I learn
more about
how the world
works?*

Collaboration and Team Work

As students are exploring their worlds and applying their learners, they are developing socially and emotionally through collaboration and teaming. Educators tap into students' innate desire to help others and through engineering, can frame student activity to tap into eagerness to be a vital part of their community.

*How can my
work help
others?*