



What is **STEM** Education?

You've probably heard about STEM in the news lately. STEM stands for Science, Technology, Engineering and Math. In the school setting, STEM can be an approach to learning. When these areas are taught in an integrated way, children are better able to appreciate how each part is necessary for success of any complex, real world project.

The idea behind STEM education is to prepare children for successful careers in the 21st century workplace. We live in a time of knowledge and information explosion. Our children will be working in jobs that don't exist today. One thing which is certain about careers of the future is that they will involve constant change. STEM education seeks to teach children to be creative, innovative, critical thinkers; all skills needed for adapting to change. It engages children in project based learning, where they are often given real world engineering challenges. Children work together to seek multiple solutions to these challenges. They learn that failure is sometimes part of the process and they should seek to try again and improve upon ideas. If children develop skills needed to think deeply and critically, they will be prepared to become the innovators and leaders of the future.