## Standards for Technological and Engineering Literacy

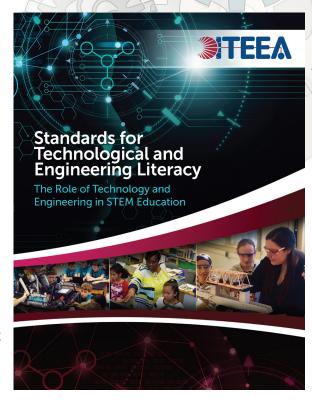
The Role of Technology and Engineering in STEM Education

What ALL students should know and be able to do in order to be technologically and engineering literate.

Technology and engineering are pervasive in all aspects of our lives. Every human activity is dependent upon the products, systems, and processes created to help grow food, provide shelter, communicate, work, and recreate. As the world grows more complex, it is increasingly important for everyone to understand more about technology and engineering. People need to understand technology's impacts on their lives, on society, and on the environment, as well as how to use and develop technological products, systems, and processes to extend human capabilities.

These understandings are all important elements of technological and engineering literacy. *Standards for Technological and Engineering Literacy* provides a vision of what students should know and be able to do in order to be technologically and engineering literate.

Standards for Technological and Engineering Literacy (STEL) provides an up-to-date roadmap for classroom teachers, district supervisors, administrators, states, and curriculum developers to promote technology and engineering education program development and curriculum design from Pre-K through twelfth grade.





To make these standards accessible and useful to all, major resources are available now on the *STEL* Resources webpage. These include crosswalks of the *STEL* benchmarks with benchmarks from science, mathematics and English language arts; benchmark verbs matched to the domains of learning; and benchmarks collated by grade band as compendiums.

The pre-publication version of *STEL* is now available. In early July, ITEEA will release the final publication PDF, ePub, and print versions.

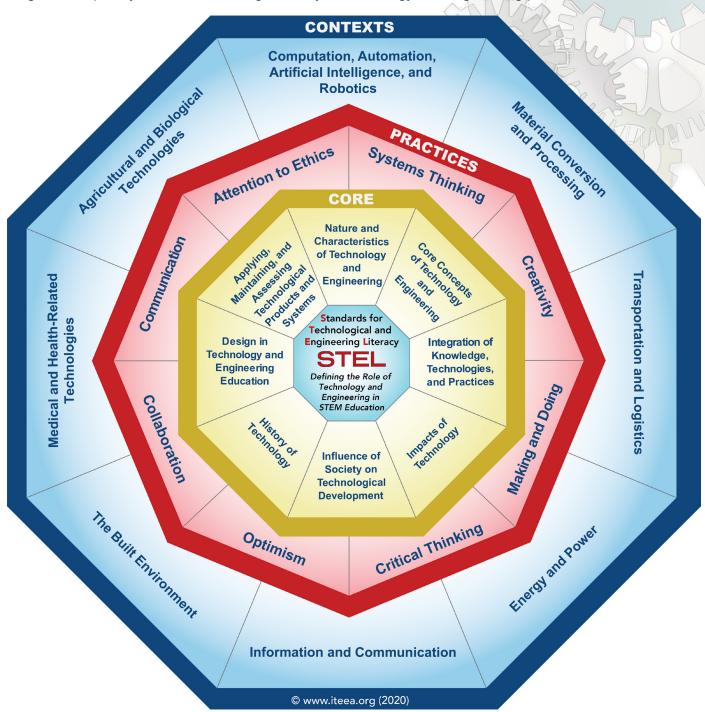
For more information, visit the STEL webpage at www.iteea.org/STEL.aspx.

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## Basic Structure of Standards for Technological and Engineering Literacy

Three organizers used within *STEL*, when embedded into courses and activities, work together as an effective framework for teaching technological and engineering literacy. These include the core disciplinary **standards**, technology and engineering **practices**, and technology and engineering **contexts**. This graphical depiction can be imagined as a set of three octagons that can be rotated to indicate application of the core standards across a range of disciplinary contexts and using a variety of technology and engineering practices.



## **ABOUT ITEEA**

The International Technology and Engineering Educators Association (ITEEA) is the professional organization for technology, innovation, design, and engineering educators. Our mission is to promote technological and engineering literacy for all by supporting the teaching of technology and engineering and promoting the professionalism of those engaged in these pursuits. ITEEA strengthens the profession through leadership, professional development, membership services, publications, and classroom activities.