

Concepts by Discipline: International Technology Education Association

Projects and Investigations	Full Speed Ahead	Right Face	Clap On, Clap Off	Follow the Guidelines	Obstacle Detection	Get in Gear	Wheels and Distance	Measured Turns	Frequency vs. Amplitude	Faster Line Tracking	Field of View	Gears and Speeds	Hello My Name Is...	Full Stop	Ramp It UP
The Nature of Technology															
1. Students will develop an understanding of the characteristics and scope of technology.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2. Students will develop an understanding of the core concepts of technology.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3. Students will develop an understanding of the relationships among technologies and the connections between technology and other fields of study.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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Technology and Society															
4. Students will develop an understanding of the cultural, social, economic and political effects of technology.					X							X	X	X	
6. Students will develop an understanding of the role of society in the development and use of technology.			X		X		X	X	X				X	X	

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Design															
8. Students will develop an understanding of the attributes of design.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9. Students will develop an understanding of engineering design.	X		X	X	X	X	X			X			X	X	X
10. Students will develop an understanding of the role of troubleshooting, research and development, invention and innovation, and experimentation in problem solving.	X		X	X	X					X			X	X	X

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Abilities for a technological world															
11. Student will develop the ability to apply the design process.	X		X	X	X		X			X		X	X	X	X
12. Student will develop the ability to use and maintain technological products and systems.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13. Student will develop the ability to assess the impact of products and systems.			X	X	X	X	X	X	X	X	X	X	X	X	X

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The Designed World															
16. Students will develop an understanding of and be able to select and use energy and power technologies.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17. Students will develop an understanding of and be able to select and use information and communication technologies.			X						X				X		
18. Students will develop an understanding of and be able to select and use transportation technologies.	X	X	X	X	X	X	X	X		X		X		X	X
20. Students will develop an understanding of and be able to select and use construction technologies.						X						X			