

Unlock Your Students' Potential with Engineering byDesign and TSA Competitions!

Middle School Engineering by Design (EbD)/ Technology Student Association (TSA) Crosswalk

	Leadership	6th Grade - Our World and Me	7th Grade - Exploring Technology	8th Grade - Invention & Innovation	Engineering for All Extension Units	Engineering for All Extension Units	Engineering for All Extension Units
Biotechnology			X	X			X
Career Prep		X	X	X	X		
Challenging Technology Issues		X	X	X			
Chapter Team	X						
Children's Stories			X	X	X		
Coding			X	X	X	X	
Community Service Video			X				
Computer-Aided Design (CAD) Foundations			X	X	X		
Construction Challenge			X	X	X		
Cybersecurity Foundations						X	
Data Science and Analytics			X		X		
Digital Photography							
Dragster			X	X	X		
Electrical Applications			X	X		X	
Essays on Technology		X	X	X	X	X	
Flight			X	X	X		
Forensics Technology							
Inventions and Innovations			X	X	X	X	
Junior Solar Sprint			X	X	X		
Leadership Strategies	X			X			
Mass Production			X	X	X	X	
Mechanical Engineering			X	X	X	X	
Medical Technology			X				
Microcontroller		X	X	X	X		
Off the Grid			X				X
Prepared Speech	X		X	X	X		
Problem Solving			X	X	X		
Promotional Marketing	X					X	
STEM Animation			X	X	X		
Structural Engineering			X			X	
System Control Technology			X	X	X	X	
Tech Bowl	X						
Technical Design	X	X	X	X	X	X	X
Video Game Design						X	X
Vlogging		X				X	X
Website Design		X		X	X	X	

Empower Your Students: The Engineering byDesign™ (EbD)™ curriculum unlocks students' potential, preparing them for future technology and innovation. By immersing students in problem- and project-based learning, EbD™ fosters creativity, critical thinking, and collaboration. Aligned with Technology Student Association (TSA) competitions, EbD™ extends learning beyond the classroom, offering real-world, career-focused experiences that boost engagement, motivation, and achievement. This integration helps students develop leadership, teamwork, and problem-solving skills, preparing them for future STEM careers.

Why Choose EbD™?

- **Authentic Learning:** EbD™ immerses students in problem- and project-based learning environments, teaching essential STEM concepts and principles.
- **Comprehensive Framework:** Our curriculum incorporates STEM disciplines along with English Language Arts, equipping students with the skills needed to address tomorrow's complexities.
- **Career Preparation:** EbD™ prepares students for future STEM careers, fostering critical thinking, creativity, and innovation.

Benefits of Integration:

- **Enhanced Engagement:** Students are more engaged and motivated when they see the real-world applications of their learning.
- **Skill Development:** Participation in TSA competitions helps students develop leadership, teamwork, and problem-solving skills.
- **Recognition and Achievement:** Students gain recognition for their achievements, boosting their confidence and inspiring further academic and career pursuits.

Get Started Today! Integrate the Engineering byDesign™ curriculum with TSA competitions and watch your students thrive. Equip them with the knowledge, skills, and experiences they need to succeed in the ever-evolving world of STEM.

Contact Us: For more information on how to align your curriculum with TSA competitions, reach out to us at ebd@iteea.org.



Scan to learn more about Engineering byDesign.



Scan to learn more about TSA Competitions.