ITEEA
Technology and Engineering bring STEM to Life!
International Technology and Engineering Educators Association
www.iteea.org

STEM CTL.
STEM Center for Teaching and Learning

TSA
TECHNOLOGY STUDENT ASSOCIATION

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

High School Engineering byDesign™ (EbD™)/ Technology Student Association (TSA) Crosswalk

	Leadership	Engineering for All Extension Units	Foundations of Technology & Engineering	Technological Design	Advanced Design Applications	Advnaced Technological Applications	Engineering Design	AP Computer Science Principles byDesign	Onshape Certification byDesign	
Animatronics			x	x		x	x			
Architectural Design			x	x	x	x				
Audio Podcasting			x							
Biotechnology Design		x	x	x		x	x			
Board Game Design										
Chapter Team	x									
Children's Stories			x	x		x				
Coding			x	x	x	x	x	x		
Computer-Aided Design, Architecture			x	x	x	x			x	
Computer-Aided Design, Engineering			x	x	x	x			x	
Data Science and Analytics			x	x	x	x	x	x		
Debating Technological Issues	x		x				x			
Digital Video Production			x	x						
Dragster Design										
Drone Challenge			x		x	x		x		
Engineering Design		x	x	x	x	x	x			
Extemporaneous Speech	x		x	x		x				
Fashion Design and Technology			x							
Flight Endurance			x	x						
Forensic Science										
Future Technology Teacher	x									
Geospatial Technology						x				
Manufacturing Prototype			x		x					
Music Production						x				
On Demand Video	x			x						
Photographic Technology	x									
Prepared Presentation			x	x	x	x	x			
Promotional Design	x		x	x		x	x			
Robotics			x	x	x		x	x		
Senior Solar Sprint			x			x				
Software Development			x	x	x	x		x		
STEM Mass Media			x	x	x	x	x			
Structural Design and Engineering			x	x		x	x			
Systems Control Technology			x	x	x	x	x			
Technology Bowl	x		x							
Technology Problem Solving			x		x		x			
Transportation Modeling			x		x					
Video Game Design			x			x		x		
Virtual Reality Visualization				x	x	x	x	x		
Webmaster	x		x	x	x	x	x			

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

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.
- 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.

Scan or click here to learn more about Engineering byDesign.

Scan or click here to learn more about TSA Competitions.