

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	Advanced Design Applications	Advanced Technological Design & Engineering	Engineering Design	AP Computer Science Applications	Onshape Certification byDesign
Animatronics				x	x		x	x
Architectural Design				x	x	x	x	
Audio Podcasting				x				
Biotechnology Design				x	x	x		x
Board Game Design								
Chapter Team	x							
Children's Stories				x	x		x	
Coding				x	x	x	x	x
Computer-Aided Design, Architecture				x	x	x	x	
Computer-Aided Design, Engineering				x	x	x	x	x
Data Science and Analytics				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
Senior Solar Sprint				x			x	
Software Development				x	x	x	x	x
STEM Mass Media				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
Webmaster	x			x	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.
- **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.

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

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	6th Grade - Exploring Technology	7th Grade - Invention & Innovation	8th Grade - Technological Systems	Engineering for All Extension Units
Audio Podcasting		x			x	x
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						x
Data Science and Analytics				x		x
Digital Photography						
Dragster				x	x	x
Electrical Applications			x	x		x
Flight				x	x	x
Forensics Technology						
Inventions and Innovations				x	x	x
Leadership Strategies	x				x	
Mass Production				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
Robotics			x	x	x	x
Solar Racer			x	x	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
Video Game Design					x	x
Website Design	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.
- **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.



Scan to learn more about
Engineering byDesign.



Scan to learn more about
TSA Competitions.