



























Suggested Units by Grade for Next Generation State and CSTA Standards

Grade Level	Curriculum Product	Suggested Units
Preschool	Wee Engineer®	21.K-2.ES.1-5 <i>Designing Fans, Designing Wrecking Balls, Designing Rafts, Designing Noisemakers</i>
Kindergarten	EiE® for Kindergarten	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>Raise the Roof: Designing Shelters</p> <p>K.PS3-2  21.K-2.ES.1-5</p> </div> <div style="width: 30%;"> <p>Here's the Scoop: Designing Trash Collectors</p> <p>K.ESS3-3 </p> </div> <div style="width: 30%;"> <p>Engineering is Elementary® A Work in Process: Improving a Play Dough Process</p> <p></p> </div> </div>
1st Grade	Engineering is Elementary®	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>Sounds Like Fun: Seeing Animal Sounds</p> <p>1-PS4-4  K-2-ETS1-1-3 21.K-2.ES.1-5</p> </div> <div style="width: 30%;"> <p>Designing Lighting Systems</p> <p>1-PS4-2., 1-PS4-3  K-2-ETS1-1-3 21.K-2.ES.1-5</p> </div> <div style="width: 30%;"> <p>Computer Science Essentials® Programming Robots</p> <p>1A-AP-08-12, 1A-DA-05  1A-CS-03, 1A-IC-16</p> </div> </div>
2nd Grade	Engineering is Elementary®	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>A Stick in the Mud: Evaluating a Landscape</p> <p>2-ESS1-1, 2-ESS2-1  K-2-ETS1-1-3 21.K-2.ES.1-5</p> </div> <div style="width: 30%;"> <p>Designing Hand Pollinators</p> <p>2-LS4  K-2-ETS1-1-3 21.K-2.ES.1-5</p> </div> <div style="width: 30%;"> <p>Computer Science Essentials® Creating Animations</p> <p>1A-AP-08-15, 1A-DA-05  1A-CS-01,03, 1A-IC-16-18</p> </div> </div>
3rd Grade	Engineering is Elementary®	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>To Get to the Other Side: Designing Bridges</p> <p>3-PS2-1  3-5-ETS1-1-3 21.3-5.ES.1</p> </div> <div style="width: 30%;"> <p>Designing Maglev Systems</p> <p>3-PS2-3  3-5-ETS1-1-3 21.3-5.ES.1</p> </div> <div style="width: 30%;"> <p>Computer Science Essentials® Building Automated Systems</p> <p>1B-CS-01,02,03, 1A-DA-07  1B-AP-10,11,13,15-17 1B-IC-19,20</p> </div> </div>
	Engineering is Elementary®	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>Marvelous Machines: Making Work Easier</p> <p>3-PS2-1  3-5-ETS1-1-3 21.3-5.ES.1</p> </div> <div style="width: 30%;"> <p>Engineering is Elementary® Solid as a Rock: Replicating an Artifact</p> <p>3-LS4-1  3-5-ETS1-1-3 21.3-5.ES.1</p> </div> <div style="width: 30%;"> <p>Engineering Adventures® Go Green: Engineering Recycled Racers</p> <p>3-PS2-1  3-5-ETS1-1-3 21.3-5.ES.1</p> </div> </div>
	Engineering Adventures®	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>The Sky's the Limit: Engineering Flying Technologies</p> <p>3-PS2-1, 3-PS2-2  3-5-ETS1-1-3 21.3-5.ES.1</p> </div> <div style="width: 30%;"> <p>Engineering Adventures® Hop To It: Safe Removal of Invasive Species</p> <p>3-LS4-3,4  3-5-ETS1-1-3 21.3-5.ES.1</p> </div> <div style="width: 30%;"> <p>Engineering is Elementary® No Bones About It: Designing Knee Braces</p> <p>3-5-ETS1-1,2,3</p> </div> </div>
4th Grade	Engineering is Elementary®	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>Just Passing Through: Designing Model Membranes</p> <p>4-LS1-1  3-5-ETS1-1-3 21.3-5.ES.1</p> </div> <div style="width: 30%;"> <p>Engineering Essentials® Designing Solar Ovens</p> <p>4-ESS3-1, 4-PS3-2  3-5-ETS1-1-3 21.3-5.ES.1</p> </div> <div style="width: 30%;"> <p>Computer Science Essentials® Designing Computer Games</p> <p>1B-AP-08-17  1B-IC-19,20</p> </div> </div>
	Engineering is Elementary®	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>Thinking Inside the Box: Designing Plant Packages</p> <p>4-LS1-1  3-5-ETS1-1-3 21.3-5.ES.1</p> </div> <div style="width: 30%;"> <p>Engineering is Elementary® Catching the Wind: Designing Windmills</p> <p>4-ESS3-1  3-5-ETS1-1-3 21.3-5.ES.1</p> </div> <div style="width: 30%;"> <p>Engineering Adventures® Music to My Ears: An Acoustical Engineering Challenge</p> <p>4-PS3-2, 4-PS4-1  3-5-ETS1-1-3 21.3-5.ES.1</p> </div> </div>
	Engineering Adventures®	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>Shake Things Up: Engineering Earthquake-Resistant Buildings</p> <p>4-ESS2-2  3-5-ETS1-1-3 21.3-5.ES.1</p> </div> <div style="width: 30%;"> <p>Engineering Adventures® A Slippery Slope: Engineering an Avalanche Protection System</p> <p>4-PS3-2, 4-PS4-1  3-5-ETS1-1-3 21.3-5.ES.1</p> </div> <div style="width: 30%;"> <p>Engineering Adventures® Light Up the Night: An Electrical Engineering Challenge</p> <p>4-PS3-2,4  3-5-ETS1-1-3 21.3-5.ES.1</p> </div> </div>

KEY

 PHYSICAL SCIENCE EARTH & SPACE SCIENCE LIFE SCIENCE COMPUTER SCIENCE

Suggested Units by Grade for Next Generation State and CSTA Standards

Grade Level	Curriculum Product	Suggested Units				
4 th Grade	Engineering Adventures®	Bubble Bonanza	3-5-ETS1-1,2,3 21.3-5.ES.1			
		Engineering is Elementary®	5-PS1-4 3-5-ETS1-1-3 21.3-5.ES.1	Engineering Essentials® 5-LS1-1, 5-LS2-1 3-5-ETS1-1-3 21.3-5.ES.1	Computer Science Essentials® 1A-DA-06,07 1B-AP-09-17 1B-IC-20	
5 th Grade	Engineering is Elementary®	An Alarming Idea: Designing Alarm Circuits	5-PS1-3 3-5-ETS1-1-3 21.3-5.ES.1	Engineering is Elementary® A Long Way Down: Designing Parachutes	5-PS2-1 3-5-ETS1-1-3 21.3-5.ES.1	Computer Science Essentials® Analyzing Digital Images
	Engineering Adventures®	To The Rescue: Engineering Aid Drop Packages	5-PS2-1 3-5-ETS1-1-3 21.3-5.ES.1	Engineering Adventures® In Good Hands: Engineering Space Gloves	5-PS1-3 3-5-ETS1-1-3 21.3-5.ES.1	Engineering is Elementary® Water, Water Everywhere: Designing Water Filters
	Engineering Adventures®	Engineering Aid Drop Packages	5-PS2-1 3-5-ETS1-1-3 21.3-5.ES.1	Engineering Adventures® In Good Hands: Engineering Space Gloves	5-PS1-3 3-5-ETS1-1-3 21.3-5.ES.1	Engineering is Elementary® Water, Water Everywhere: Designing Water Filters
6 th Grade	Engineering Everywhere®	Don't Runoff: Engineering An Urban Landscape	MS-ESS3-3 21.6-8.ES.1-5	Engineering Everywhere® Food for Thought: Engineering Ice Cream	MS-PS1-8 21.6-8.ES.1-5	Engineering is Elementary® Water, Water Everywhere: Designing Water Filters
	Engineering Everywhere®	Go Fish: Engineering Prosthetic Tails	MS-ETS1-1,2,3,4			Engineering is Elementary® Water, Water Everywhere: Designing Water Filters
7 th Grade	Engineering Everywhere®	Growing Up: Engineering Vertical Farms	MS-LS1-5 21.6-8.ES.1-5	Engineering Everywhere® Its in the Bag: Engineering Bioinspired Gear	MS-LS2-5 21.6-8.ES.1-5	Engineering is Elementary® Water, Water Everywhere: Designing Water Filters
	Engineering Everywhere®	Put a Lid on it: Engineering Safety Helmets	MS-PS1-7 21.6-8.ES.1-5	Engineering Everywhere® Testing the Water: Engineering a Water Reuse Process	MS-LS2-5 21.6-8.ES.1-5	Engineering is Elementary® Water, Water Everywhere: Designing Water Filters
8 th Grade	Engineering Everywhere®	Its About Time: Engineering Timers	MS-ETS1-1,2,3,4	Engineering Everywhere® Outbreak Alert: Engineering a Pandemic Response	MS-LS3-1 21.6-8.ES.1-5	Engineering is Elementary® Water, Water Everywhere: Designing Water Filters

KEY

 PHYSICAL SCIENCE

 EARTH & SPACE SCIENCE

 LIFE SCIENCE

 COMPUTER SCIENCE