























## Suggested Units by Grade for

New York State Science Learning Standards, 2016












New York State Computer Science and Digital Fluency Learning Standards, 2020

Grade Level	Curriculum Product Suggested Units		
Pre-K	<i>Wee Engineer</i> ® Designing Fans, Designing Wrecking Balls, Designing Rafts, Designing Noisemakers		<b>MS.ESS3-3</b>
Kindergarten	<i>EiE</i> ® for Kindergarten Raise the Roof: Designing Shelters	<b>K-PS3-2</b> 	<i>EiE</i> ® for Kindergarten Here's the Scoop: Designing Trash Collectors
			<b>K-ESS3-3</b>  <i>Engineering is Elementary</i> ® To Get to the Other Side: Designing Bridges
1 <sup>st</sup> Grade	<i>Engineering Essentials</i> ™ Designing Lighting Systems	<b>1-PS4-3</b> 	<i>Computer Science Essentials</i> ™ Programming Robots
			<b>K-1.CT.6</b>  <i>Engineering is Elementary</i> ® Sounds Like Fun: Seeing Animal Sounds
2 <sup>nd</sup> Grade	<i>Engineering is Elementary</i> ® A Work in Process: Improving a Play Dough Process	<b>2-PS1-1</b> 	<i>Engineering is Elementary</i> ® A Sticky Situation: Designing Walls
	<i>Computer Science Essentials</i> ® Creating Animations	<b>2-3.DL.2</b> 	<i>Engineering is Elementary</i> ® A Stick in the Mud: Evaluating a Landscape
3 <sup>rd</sup> Grade	<i>Engineering is Elementary</i> ® Marvelous Machines: Making Work Easier	<b>3-PS2-1</b> 	<i>Engineering Adventures</i> ® Go Green: Engineering Recycled Racers
	<i>Engineering Essentials</i> ™ Designing Maglev Systems	<b>3-PS2-3</b> 	<i>Computer Science Essentials</i> ™ Building Automated Systems
	<i>Engineering Adventures</i> ® Hop to It: Safe Removal of Invasive Species	<b>3-LS4-3</b> 	<b>2-3.IC.5</b>  <i>Engineering is Elementary</i> ® Just Passing Through: Designing Model Membranes
4 <sup>th</sup> Grade	<i>Engineering Essentials</i> ™ Designing Solar Ovens	<b>4-PS3-2</b> 	<i>Computer Science Essentials</i> ® Analyzing Computer Games
	<i>Engineering Adventures</i> ® Music to My Ears: An Acoustical Engineering Challenge	<b>4-PS3-2</b> 	<i>Engineering Adventures</i> ® A Slippery Slope: Engineering an Avalanche Protection System
	<i>Engineering is Elementary</i> No Bones About It: Designing Knee Braces	<b>4-LS1-1</b> 	<i>Engineering is Elementary</i> ® Thinking Inside the Box: Designing Plant Packages
	<i>Engineering is Elementary</i> ® Catching the Wind: Designing Windmills	<b>4-ESS3-1</b> 	<i>Engineering Adventures</i> ® Shake Things Up: Engineering Earthquake-Resistant Buildings
5 <sup>th</sup> Grade	<i>Engineering is Elementary</i> ® An Alarming Idea: Designing Alarm Circuits	<b>5-PS1-3</b> 	<i>Engineering is Elementary</i> ® Taking the Plunge: Designing Submersibles
	<i>Engineering Adventures</i> ® Liftoff: Engineering Rockets and Rovers	<b>5-PS2-1</b> 	<i>Engineering is Elementary</i> ® A Long Way Down: Designing Parachutes
	<i>Computer Science Essentials</i> ® Analyzing Digital Images	<b>4-6.CT.3</b> 	<i>Engineering is Elementary</i> ® Water, Water Everywhere: Designing Water Filters
			<i>Engineering Adventures</i> ® Bubble Bonanza: Engineering Bubble Wands
			<b>5-PS1-3</b>  <b>5-PS1-1</b>  <b>5-LS1-1</b>  <b>3-5-ETS1</b> 

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6 <sup>th</sup> Grade	<i>Engineering Everywhere</i> ® Food for Thought: Engineering Ice Cream MS-PS1-2 	<i>Engineering Everywhere</i> ® Here Comes the Sun: Engineering Insulated Homes MS-PS3-3 	<i>Engineering Everywhere</i> ® Don't Runoff: Engineering an Urban Landscape MS.ESS3-3 
	<i>Engineering Everywhere</i> ® Go Fish: Engineering Prosthetic Tails MS-ETS1-1 		
7 <sup>th</sup> Grade	<i>Engineering Everywhere</i> ® Plants to Plastics: Engineering Bioplastics MS-PS1-3 	<i>Engineering Everywhere</i> ® Put a Lid on It: Engineering Safety Helmets MS-PS2-1 	<i>Engineering Everywhere</i> ® It's in the Bag: Engineering Bioinspired Gear MS-LS1-4 
	<i>Engineering Everywhere</i> ® Growing Up: Engineering Vertical Farms MS-LS1-4 	<i>Engineering Everywhere</i> ® Testing the Waters: Engineering a Water Reuse Process MS-LS2-5 	
8 <sup>th</sup> Grade	<i>Engineering Everywhere</i> ® Outbreak Alert: Engineering a Pandemic Response MS-LS3-1 	<i>Engineering Everywhere</i> ® Worlds Apart: Engineering Remote Sensing Devices MS.ESS1-3 	<i>Engineering Everywhere</i> ® It's About Time: Engineering Timers MS-ETS1-1 