





# Suggested Units by Grade for Virginia Science and Computer Science Standards of Learning (SOLS) 2018





K	Curriculum Series		Curriculum Series	
	Suggested Units	Standards	Suggested Units	Standards
Engineering	YES Elementary™ Engineering Sun Hats	K.1, K.8a-c	YES Enrichment™ Engineering Bandages	K.1
	EiE® for Kindergarten Here's the Scoop: Engineering Trash Collectors	K.1a-f, K.2a-c, K.3a-d, K.4a-b, K.7a, K.10a-d, K.11c		
Computer Science 	EiE® for Kindergarten Sort It Out: Programming Robots	K.1a-f, K.7a, K.11a-c		

1 <sup>st</sup> Grade	Curriculum Series		Curriculum Series	
	Suggested Units	Standards	Suggested Units	Standards
Engineering	YES Elementary™ Engineering Nightlights	1.1, 1.3a, 1.3c	EiE® for Kindergarten Raise the Roof: Designing Shelters	1.1, 1.3a, 1.3c, 1.5a, 1.6a
	Engineering is Elementary® To Get to the Other Side: Designing Bridges	1.1a-f, 1.3a-b		
Computer Science 	Computer Science Essentials® Programming Robots	1.1a, 1.2a, 1.3, 1.5, 1.9		







2 <sup>nd</sup> Grade	Curriculum Series		Curriculum Series	
	Suggested Units	Standards	Suggested Units	Standards
Engineering	YES Elementary™ Engineering Pumpkin Pollinators	2.1, 2.4a, 2.5a-c, 2.8a	YES Enrichment™ Engineering Sails	2.1, 2.2a-c
	YES Elementary™ Engineering Magnetic Dog Doors	2.1, 2.2a-c		
Computer Science 	Computer Science Essentials® Creating Animations	2.1a-c, 2.2a-c, 2.3, 2.4, 2.5, 2.12		

3 <sup>rd</sup> Grade	Curriculum Series		Curriculum Series	
	Suggested Units	Standards	Suggested Units	Standards
Engineering	<i>Engineering is Elementary</i> ® A Work in Process: Improving a Play Dough Process	3.1, 3.3a-b	<i>YES Enrichment</i> ™ Engineering Rescue Shuttles	3.2a-c
	<i>Engineering is Elementary</i> ® Catching the Wind: Designing Windmills	3.1a-f, 3.2a-d		
Computer Science 	<i>Computer Science Essentials</i> ® Building Automated Systems	3.1a-c, 3.2a-c, 3.3, 3.4, 3.6, 3.8, 3.9, 3.13		

4 <sup>th</sup> Grade	Curriculum Series		Curriculum Series	
	Suggested Units	Standards	Suggested Units	Standards
Engineering	<i>YES Enrichment</i> ™ Engineering Sock Assistive Devices	4.1a, 4.1b, 4.1d	<i>Engineering is Elementary</i> ® A Long Way Down: Designing Parachutes	4.1a-f, 4.5a-c
	<i>EiE</i> ® <i>Essentials</i> Designing Solar Ovens	4.1a-f, 4.4b		
Computer Science 	<i>Computer Science Essentials</i> ® Designing Computer Games	4.1a-d, 4.2a-d, 4.3, 4.4, 4.5, 4.6, 4.8, 4.12, 4.13		

5 <sup>th</sup> Grade	Curriculum Series		Curriculum Series	
	Suggested Units	Standards	Suggested Units	Standards
Engineering	<i>YES Elementary</i> ™ Engineering Safety Vests	5.1f, 5.4b	<i>Engineering Adventures</i> ® Shake Things Up: Engineering Earthquake-Resistant Buildings	5.1a-f, 5.2a, 5.8b
	<i>Engineering is Elementary</i> ® A Stick in the Mud: Evaluating a Landscape	5.1a-f, 5.8a-d		
Computer Science 	<i>Computer Science Essentials</i> ® Analyzing Digital Images	5.1a-e, 5.2a-e, 5.3, 5.4, 5.5, 5.7, 5.11, 5.12, 5.13		

**Middle  
School**

Curriculum Series		Curriculum Series	
Suggested Units	Standards	Computer Science Modules	Standards
<i>YES Middle School™</i> Engineering Eco-Friendly Slippers	<b>6.9e</b>	<i>YES Middle School™</i> Step Counters 	<b>6.DA.2</b> <b>7.DA.1</b> <b>6.AP.1</b> <b>7.AP.1</b> <b>8.AP.1</b>
		<i>YES Middle School™</i> User Reviews Analysis 	<b>7.DA.2</b> <b>8.DA.1</b>
<i>YES Middle School™</i> Engineering Landing Pads	<b>SC.6.P.11.1</b>	<i>YES Middle School™</i> Delivery Notification Systems 	
		<i>YES Middle School™</i> Bounce Height Measurements 	
<i>YES Middle School™</i> Engineering Medicine Coolers	<b>PS.3</b> <b>PS.5</b>	<i>YES Middle School™</i> Heatwave Visualizations 	<b>6.AP.1</b> <b>7.AP.1</b> <b>8.AP.1</b>
		<i>YES Middle School™</i> Medicine Cooler Alarms 	<b>6.DA.1</b> <b>7.DA.1</b>
<i>YES Elementary™</i> Engineering Plastic Filters	<b>6.1, 6.8d,</b> <b>6.9a-f</b>		
<i>EiE® Engineering Everywhere</i> Growing Up: Engineering Vertical Farms	<b>6.1a-f, 6.4a,</b> <b>6.6f</b>		