

## Suggested Units by Grade for

**Next Generation Science Standards (NGSS) CSTA K-12 Computer Science Standards** 





К	Curriculum Series	Standards	Curriculum Series	Standards
	Suggested Units	Stanuarus	Suggested Units	
	YES Elementary™	K-PS3-1,2	EiE® for Kindergarten	112.2.b.6
Engineering	Engineering Sun Hats	K-2-ETS1-1,2,3	Here's the Scoop: Designing Trash	112.2.b.8
	<b>.</b>	K-PS2-2	Collectors	112.2.b.12.B
	YES Enrichment™	2-PS1-2		
	Engineering Bubble Wands	K-2-ETS1-1,2,3		
Computer Science	EiE® for Kindergarten			
	Sort It Out: Programming Robots to Recycle	Data & Analysis, Algorithms & Programming*		

1 <sup>st</sup>	Curriculum Series	Standards	Curriculum Series	Standards
Grade	Suggested Units	Stanuarus	Suggested Units	Standards
	YES Elementary™	1-PS4-2,3,4	Engineering is Elementary®	K-PS2-1,2
Engineering	Engineering Nightlights	K-2-ETS1-1,2,3	To Get to the Other Side: Designing Bridges	K-2-ETS1-1,2,3
	YES Enrichment™ Engineering Bandages	2-PS1-2 K-2-ETS1-1,2,3		
Computer Science	Computer Science Essentials® Programming Robots	Computing Systems, Data & Analysis, Algorithms & Programming, Impacts of Computing*		

2 <sup>nd</sup>	Curriculum Series	Standards	Curriculum Series	Standards	
Grade	Suggested Units	Stanuarus	Suggested Units	Standards	
	YES Elementary™	2-PS1-2	Engineering is Elementary®	2-PS1-2	
Faringalan	Engineering Pumpkin Pollinator	2-LS2-2 K-2-ETS1-1,2,3	A Work In Progress: Improving A Play Dough Process	K-2-ETS1-1,2,3	
Engineering	YES Enrichment™ Engineering Sails	K-PS2-2 2-PS1-2 K-2-ETS1-1,2,3			
Computer Science	Computer Science Essentials® Creating Animations	Computing Systems, Data & Analysis, Algorithms & Programming, Impacts of Computing*			





3 <sup>rd</sup> Grade	Curriculum Series Suggested Units	Standards	Curriculum Series Suggested Units	Standards
Engineering	YES Elementary™ Engineering Magnetic Dog Doors	3-PS2-1,3,4 3-5-ETS1-2	Engineering is Elementary®  Catching the Wind: Designing Windmills	3-PS2-1,2 3-ESS2-1 3-5-ETS1-1,2,3
	YES Enrichment™ Engineering Rescue Shuttles	3-PS2-2 3-5-ETS1-1,2,3		
Computer Science	Computer Science Essentials® Building Automated Systems	Computing Systems, Data & Analysis, Algorithms & Programming, Impacts of Computing*		

4 <sup>th</sup> Grade	Curriculum Series Suggested Units	Standards	Curriculum Series Suggested Units	Standards
Engineering	YES Elementary <sup>TM</sup> Engineering Safety Vests $YES$ Enrichment <sup>TM</sup> Engineering Upcycled Toys	4-PS3-4 4-PS4-3 3-5-ETS1-1, 2 3-PS2-2 5-ESS3-1 3-5-ETS1-1,2,3	Engineering is Elementary® Now You're Cooking: Designing Solar Ovens	4-PS3-4 4-ESS3- 1 3-5-ETS1-1
Computer Science	Computer Science Essentials® Designing Computer Games	Computing Systems, Data & Analysis, Algorithms & Programming, Impacts of Computing*		

Grade  Engineering	Curriculum Series	Standards	Curriculum Series	Standards	
	Suggested Units		Suggested Units	Standards	
	YES Elementary™ Engineering Plastic Filters	5-LS2-1 5-ESS1-1 5-ESS3-1 3-5-ETS1-1,2,3	Engineering is Elementary® A Long Way Down: Designing Parachutes	5-PS2-1 3-5-ETS1-1,2,3	
	YES Enrichment™ Engineering Sock Assistive Devices	3-5-ETS1-1,2,3			
Computer Science	Computer Science Essentials® Analyzing Digital Images	Computing Systems, Data & Analysis, Algorithms & Programming, Impacts of Computing*			





## Grades 6–8

Curriculum Series Suggested Units	Standards	Curriculum Series Computer Science Module	Standards
YES Middle School™	MS-PS1-6	YES Middle School™ Heatwave Visualizations	Algorithms & Programming, Impacts of Computing*
Engineering Medicine Coolers	MS-PS3-3 MS-ETS1-1,2	YES Middle School™ Medicine Cooler Alarms	Data & Analysis, Impacts of Computing*
YES Middle School™	MS-PS3-1 MS-PS2-2 MS-ETS1-1,2	YES Middle School™ Step Counters	Algorithms & Programming, Impacts of Computing*
Engineering Eco-friendly Slippers		YES Middle School™ User Reviews Analysis	Data & Analysis, Impacts of Computing*
YES Middle School™	MS-PS2-1 MS-PS3-2	YES Middle School™  Delivery Notification Systems	Algorithms & Programming*
Engineering Landing Pads	MS-PS3-5 MS-ETS1-1,2,3,4	YES Middle School™  Bounce Height Measurments	
Engineering Everywhere® Put a Lid on It: Engineering Safety Helmets	MS-PS2-1 MS-LS1-8 MS-ETS1-1,2,3,4		
Engineering Everywhere® Go Fish: Engineering Prosthetic Tails	MS-LS1-4 MS-ETS1-1,2,3,4		