

Unit	Engineering Fields and Science Connections	NGSS Performance Expectations		
		Grade 3	Grade 4	Grade 5
<b>Bubble Bonanza: Engineering Bubble Wands</b>	Materials Engineering Matter and Its Interactions			5-PS1-3 5-PS1-4 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3
<b>Go Green: Engineering Recycled Racers</b>	Green Engineering Energy, Forces	3-PS2-1 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	4-PS3-1 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	
<b>In Good Hands: Engineering Space Gloves</b>	Materials Engineering Properties of Materials, Energy Transfer	3-ESS3-1 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	4-PS3-2 4-PS3-3 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	5-PS1-3 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3
<b>Liftoff: Engineering Rockets and Rovers</b>	Aerospace Engineering Forces and Interactions	3-PS2-1 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3		5-PS2-1 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3
<b>Light Up the Night: An Electrical Engineering Challenge</b>	Electrical Engineering Electric Circuits, Light		4-PS3-2 4-PS3-4 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	5-PS1-3 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3
<b>Music to My Ears: An Acoustical Engineering Challenge</b>	Acoustical Engineering Sound		4-PS3-2 4-PS4-1 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	
<b>The Sky's the Limit: Engineering Flying Technologies</b>	Aeronautical Engineering Forces and Interactions	3-PS2-1 3-PS2-2 3-ESS2-2 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3		5-PS2-1 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3

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<b>Shake Things Up: Engineering Earthquake-Resistant Buildings</b>	Earthquake Engineering  Earthquakes	3-PS2-1 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	4-ESS3-2 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	
<b>A Slippery Slope: Engineering an Avalanche Protection System</b>	Avalanche Engineering  Forces and Interactions	3-PS2-1 3-PS2-2 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	4-PS3-2 4-PS4-1 4-ESS3-2 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	
<b>Hop to It: Safe Removal of Invasive Species</b>	Mechanical Engineering  Environmental Science	3-PS2-1 3-LS4-2 3-LS4-3 3-LS4-4 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3		
<b>To the Rescue: Engineering Aid Drop Packages</b>	Package Engineering  Energy, Forces		4-PS3-3 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	