

Unit	Engineering Field	Science Topics	NGSS Performance Expectations	
			Science	Engineering
Don't Runoff: Engineering an Urban Landscape	Environmental Engineering	Natural Resources Earth and Human Activity	MS-LS2-1 MS-LS2-4 MS-LS2-5 MS-ESS3-3 MS-ESS3-4	MS-ETS1-1 MS-ETS1-2 MS-ETS1-3 MS-ETS1-4
Food for Thought: Engineering Ice Cream	Process Engineering	Matter Energy Transfer	MS-PS1-2 MS-PS1-6 MS-PS4-2	MS-ETS1-1 MS-ETS1-2 MS-ETS1-3 MS-ETS1-4
Go Fish: Engineering Prosthetic Tails	Biomechanical Engineering	Structures and Function in Animals	MS-LS1-4	MS-ETS1-1 MS-ETS1-2 MS-ETS1-3 MS-ETS1-4
Growing Up: Engineering Vertical Farms	Agricultural Engineering	Light Photosynthesis Natural Resources	MS-PS4-2 MS-LS1-4 MS-LS1-6 MS-LS2-5	MS-ETS1-1 MS-ETS1-2 MS-ETS1-3 MS-ETS1-4
It's in the Bag: Engineering Bioinspired Gear	Materials Engineering Bioinspired Engineering	Structures and Function in Animals	MS-LS1-4	MS-ETS1-1 MS-ETS1-2 MS-ETS1-3 MS-ETS1-4
Outbreak Alert!: Engineering a Pandemic Response	Biomedical Engineering	Cells, Viruses Public Health	MS-LS1-1 MS-LS3-1 MS-LS4-4	MS-ETS1-1 MS-ETS1-2 MS-ETS1-3 MS-ETS1-4
Testing the Waters: Engineering a Water Reuse Process	Process Engineering Water Resource Engineering	Natural Resources	MS-LS2-5 MS-ESS3-3 MS-ESS3-4	MS-ETS1-1 MS-ETS1-2 MS-ETS1-3 MS-ETS1-4
Worlds Apart: Engineering Remote Sensing Devices	Remote Sensing Engineering	Light Solar System	MS-PS4-2 MS-ESS1-3 MS-ESS2-3	MS-ETS1-1 MS-ETS1-2 MS-ETS1-3 MS-ETS1-4
Plants to Plastics: Engineering Bioplastics	Chemical Engineering	Properties of Matter Chemical Reactions	MS-PS1-2 MS-PS1-3 MS-ESS3-3	MS-ETS1-1 MS-ETS1-2 MS-ETS1-3 MS-ETS1-4

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It's About Time: Engineering Timers	Mechanical Engineering	Physical Science	Connections to ETAS	MS-ETS1-1 MS-ETS1-2 MS-ETS1-3 MS-ETS1-4
Put a Lid on It: Engineering Safety Helmets	Biomechanical Engineering	Forces and Motion Nervous System	MS-PS2-1 MS-LS1-8	MS-ETS1-1 MS-ETS1-2 MS-ETS1-3 MS-ETS1-4
Here Comes the Sun: Engineering Insulated Homes	Green Engineering	Thermal Energy Transfer Properties of Matter Natural Resources Earth and Human Activity	MS-PS1-4 MS-PS3-3 MS-PS3-4 MS-PS4-2 MS-ESS3-3 MS-ESS3-4	MS-ETS1-1 MS-ETS1-2 MS-ETS1-3 MS-ETS1-4