

Alignment to Wyoming Science Content and Performance Standards		
Unit	Science Concept Connections	Wyoming Science K
Raise the Roof: Designing Shelters	• light and shadow • the warming effect of the Sun • animals and animal needs	Energy: K-PS3-1, K-PS3-2 Earth's Systems: K-ESS2-2 Engineering Design: K-2-ETS1-1, K-2-ETS1-2, K-2-ETS1-3
Here's the Scoop: Designing Trash Collectors	• the basic needs of living things • animal habitats and ecosystems • human impact on the environment • recycling and environmental stewardship	Earth and Human Activity: K-ESS3-3 Engineering Design: K-2-ETS1-1, K-2-ETS1-2, K-2-ETS1-3

Alignment to Wyoming Science and Computer Science Content and Performance Standards 2020		
Unit	Wyoming Science K – 2	Wyoming Computer Science K – 2
Sort It Out: Programming Robots to Recycle	Engineering Design: K-2-ETS1-1, K-2-ETS1-2, K-2-ETS1-3	Data & Analysis: 2.DA.CVT.01 Algorithms & Programming: 2.AP.A.01, 2.AP.V.01, 2.AP.C.01, 2.AP.M.01, 2.AP.PD.01, 2.AP.PD.02, 2.AP.PD.03, 2.AP.PD.04

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Units with Life Science Topics

Unit	Engineering and Science Fields	Wyoming Science Standards					
		Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
The Best of Bugs: Designing Hand Pollinators	Agricultural Engineering Insects and Plants		1-LS1-1 K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3	2-LS2-2 2-PS1-1 2-PS1-2 K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3	3-LS4-3 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3		
Just Passing Through: Designing Model Membranes	Bioengineering Needs of Organisms	K-LS1-1 K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3	1-LS1-1 K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3		3-LS4-3 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3		
No Bones About It: Designing Knee Braces	Biomedical Engineering Skeletal and Muscular Systems					4-LS1-1 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	
A Slick Solution: Cleaning an Oil Spill <i>Also listed with Earth Science</i>	Environmental Engineering Ecosystems				3-LS4-3 3-LS4-4 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3		5-LS1-1 5-LS2-1 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3
Thinking Inside the Box: Designing Plant Packages	Package Engineering Plants	K-LS1-1 K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3		2-LS2-1 2-PS1-1 2-PS1-2 K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3		4-LS1-1 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	



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Units with Earth Science Topics

Unit	Engineering and Science Fields	Wyoming Science Standards					
		Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
Catching the Wind: Designing Windmills <i>Also listed with Physical Science</i>	Mechanical Engineering Weather	K-ESS2-1 K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3			3-ESS2-2 3-PS2-1 3-PS2-2 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3		
Now You're Cooking: Designing Solar Ovens <i>Also listed with Physical Science</i>	Green Engineering Energy and Energy Resources					4-ESS3-1 4-PS3-2 4-PS3-4 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	5-ESS3-1 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3
A Slick Solution: Cleaning an Oil Spill <i>Also listed with Life Science</i>	Environmental Engineering Ecosystems	K-ESS2-1 K-ESS3-1 K-ESS3-3 K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3					5-ESS2-1 5-ESS2-2 5-ESS3-1 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3
Solid as a Rock: Replicating an Artifact <i>Available as a digital unit. Materials Kit not available for purchase.</i>	Materials Engineering Rocks and Minerals			2-PS1-1 2-PS1-2 K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3		4-ESS1-1 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	
A Stick in the Mud: Evaluating a Landscape	Geotechnical Engineering Landforms and Maps			2-ESS1-1 K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3	3-ESS3-1 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	4-ESS2-1 4-ESS2-2 4-ESS3-2 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	

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Units with Earth Science Topics, *continued*

Unit	Engineering and Science Fields	Wyoming Science Standards					
		Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
Taking the Plunge: Designing Submersibles <i>Also listed with Physical Science</i>	Ocean Engineering Sinking and Floating					4-ESS2-2 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	5-ESS2-1 5-ESS2-2 5-PS1-3 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3
Water, Water Everywhere: Designing Water Filters	Environmental Engineering Water			3-LS4-4 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3			5-ESS2-1 5-ESS3-1 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3

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Units with Physical Science Topics

Unit	Engineering and Science Fields	Wyoming Science Standards					
		Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
An Alarming Idea: Designing Alarm Circuits	Electrical Engineering Electricity					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
The Attraction Is Obvious: Designing Maglev Systems	Transportation Engineering Magnets				3-PS2-3 3-PS2-4 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
Catching the Wind: Designing Windmills <i>Also listed with Earth Science</i>	Mechanical Engineering Weather				3-PS2-1 3-PS2-2 3-ESS2-1 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	4-PS3-1 4-PS3-4 4-ESS3-1 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	
To Get to the Other Side: Designing Bridges	Civil Engineering Forces	K-PS2-1 K-PS2-2 K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3			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
Lighten Up: Designing Lighting Systems	Optical Engineering Light		1-PS4-2 1-PS4-3 K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3			4-PS4-2 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	
A Long Way Down: Designing Parachutes	Aerospace Engineering Solar System				3-PS2-1 3-PS2-2 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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Units with Physical Science Topics, *continued*

Unit	Engineering and Science Fields	Wyoming Science Standards					
		Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
Marvelous Machines: Making Work Easier	Industrial Engineering Simple Machines				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
Now You're Cooking: Designing Solar Ovens <i>Also listed with Earth Science</i>	Green Engineering Energy					4-PS3-2 4-PS3-4 4-ESS3-1 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	
Sounds Like Fun: Seeing Animal Sounds	Acoustical Engineering Sound		1-PS4-1 1-PS4-4 K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3			4-PS3-2 4-PS4-1 4-PS4-3 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	
A Sticky Situation: Designing Walls	Materials Engineering Earth Materials			2-PS1-1 2-PS1-2 2-PS1-3 K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3			5-PS1-4 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3
Taking the Plunge: Designing Submersibles <i>Also listed with Earth Science</i>	Ocean Engineering Sinking and Floating			2-PS1-1 2-PS1-2 K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3			5-PS1-3 5-ESS2-1 5-ESS2-2 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3
A Work in Process: Improving a Play Dough Process	Chemical Engineering Process Engineering Solids and Liquids			2-PS1-1 2-PS1-2 K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3			5-PS1-3 5-PS1-4 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3

Grade	Unit	Engineering Field	Wyoming Science	
			Science	Engineering Design
1st	Designing Lighting Systems	Optical Engineering	1-PS4-2 1-PS4-3	K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3
2nd	Designing Hand Pollinators	Agricultural Engineering	2-LS2-2 2-PS1-1 2-PS1-2	K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3
3rd	Designing Maglev Systems	Transportation Engineering	3-PS2-3 3-PS2-4	3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3
4th	Designing Solar Ovens	Green Engineering	4-ESS3-1 4-PS3-2 4-PS3-4	3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3
5th	Cleaning an Oil Spill	Environmental Engineering	5-ESS2-1 5-ESS2-2 5-ESS3-1 5-LS1-1 5-LS2-1	3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3

EiE® Computer Science Essentials™ Alignment to Wyoming Computer Science Content & Performance Standards (WYCPS) 2020

Grade	Unit	Concept Tool Type	Wyoming Computer Science WYCPS 2020				
K	Sort It Out: Programming Robots to Recycle* EiE for Kindergarten	Algorithms & Programming Robotics	2.DA.CVT.01 2.AP.A.01	2.AP.V.01 2.AP.C.01	2.AP.M.01 2.AP.PD.01	2.AP.PD.02 2.AP.PD.03	2.AP.PD.04
			*This EiE for Kindergarten unit can be used with Computer Science Essentials units to create K–5 coverage for computer science.				
1st	Programming Robots	Computing Systems Robotics	2.CS.HS.01 2.CS.T.01 2.DA.S.01	2.AP.A.01 2.AP.V.01 2.AP.C.01	2.AP.M.01 2.AP.PD.01 2.AP.PD.04	2.IC.C.01 5.CS.D.01	5.CS.HS.01 5.IC.C.01
2nd	Creating Animations	Algorithms & Programming Visual Programming	2.CS.D.01 2.CS.HS.01 2.CS.T.01 2.DA.S.01 2.AP.A.01	2.AP.V.01 2.AP.C.01 2.AP.M.01 2.AP.PD.01	2.AP.PD.02 2.AP.PD.03 2.AP.PD.04	2.IC.C.01 2.IC.SI.01	5.CS.D.01 5.CS.HS.01 5.IC.C.01
3rd	Building Automated Systems	Computing Systems Physical Computing	2.CS.HS.01 2.CS.T.01 2.DA.S.01 2.AP.A.01	2.IC.C.01 2.IC.SI.01 5.CS.D.01	5.CS.HS.01 5.CS.T.01 5.DA.IM.01 5.AP.C.01	5.AP.M.01 5.AP.PD.01 5.AP.PD.03 5.AP.PD.05	5.AP.PD.04 5.IC.C.01 5.IC.C.02 5.IC.SI.01
4th	Designing Computer Games	Impacts of Computing Visual Programming	2.CS.HS.01 2.CS.T.01 2.DA.S.01 2.AP.A.01 2.IC.C.01	2.IC.SI.01 5.CS.D.01 5.CS.HS.01 5.AP.A.01	5.AP.V.01 5.AP.C.01 5.AP.M.01 5.AP.M.02 5.AP.PD.05	5.AP.PD.01 5.AP.PD.02 5.AP.PD.03 5.AP.PD.05	5.AP.PD.04 5.IC.C.01 5.IC.C.02 5.IC.SI.01
5th	Analyzing Digital Images	Data & Analysis Visual Programming	2.CS.HS.01 2.CS.T.01 2.DA.S.01 2.AP.A.01 2.IC.C.01	2.IC.SI.01 5.CS.D.01 5.CS.HS.01	5.DA.IM.01 5.AP.V.01 5.AP.C.01 5.AP.M.01	5.AP.M.02 5.AP.PD.01 5.AP.PD.02 5.AP.PD.03	5.AP.PD.05 5.AP.PD.04 5.IC.C.01 5.IC.SI.01



Unit	Engineering Fields and Science Connections	Wyoming Science Standards		
		Grade 3	Grade 4	Grade 5
Bubble Bonanza: Engineering Bubble Wands	Materials Engineering Matter and Its Interactions			5-PS1-3 5-PS1-4 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3
Go Green: Engineering Recycled Racers	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	
In Good Hands: Engineering Space Gloves	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
Liftoff: Engineering Rockets and Rovers	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
Light Up the Night: An Electrical Engineering Challenge	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
Music to My Ears: An Acoustical Engineering Challenge	Acoustical Engineering Sound		4-PS3-2 4-PS4-1 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	
The Sky's the Limit: Engineering Flying Technologies	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



Unit	Engineering Fields and Science Connections	Wyoming Science Standards		
		Grade 3	Grade 4	Grade 5
Shake Things Up: Engineering Earthquake-Resistant Buildings	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	
A Slippery Slope: Engineering an Avalanche Protection System	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	
Hop to It: Safe Removal of Invasive Species	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		
To the Rescue: Engineering Aid Drop Packages	Package Engineering Energy, Forces		4-PS3-3 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	

EiE® Engineering Everywhere Alignment to Wyoming Science Content Standards 2016 and Performance Standards 2021

Unit	Engineering Field	Science Topics	Wyoming Science Standards	
			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

EiE® Engineering Everywhere Alignment to Wyoming Science Content Standards 2016 and Performance Standards 2021

Unit	Engineering Field	Science Topics	Wyoming Science Standards	
			Science	Engineering
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