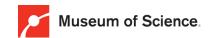


EiE® for Kindergarten Alignment to Louisiana Student Standards Science, 2017



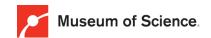
EiE for Kindergarten						
Unit	Science Concept Connections	Louisiana Student Standards Science Kindergarten				
Raise the Roof: Designing Shelters	light and shadowthe warming effect of the Sunanimals and animal needs	Energy: K-PS3-1, K-PS3-2 Earth's Systems: K-ESS2-2				
Here's the Scoop: Designing 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				





Units with Life Science Topics

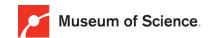
Unit	Engineering and		Louisiana Student Standards Science				
Offic	Science Fields	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
The Best of Bugs: Designing Hand Pollinators	Agricultural Engineering		1-LS1-1	2-LS2-2 2-PS1-1	3-LS4-3		
Hand Folimators	Insects and Plants			2-PS1-2			
Just Passing Through:	Bioengineering	K-LS1-1	1-LS1-1		21042		
Designing Model Membranes	Needs of Organisms	K-L51-1	I-L51-1		3-LS4-3		
No Bonco About Its Decigning	Biomedical Engineering						
No Bones About It: Designing Knee Braces	Skeletal and Muscular Systems					4-LS1-1	
A Slick Solution: Cleaning an Oil Spill	Environmental Engineering				3-LS4-3		5-LS1-1
Also listed with Earth Science	Ecosystems				3-LS4-4		5-LS2-1
Thinking Inside the Box:	Package Engineering	K-LS1-1		2-LS2-1 2-PS1-1		4-LS1-1	
Designing Plant Packages	Plants	K-L01-1		2-PS1-1 2-PS1-2		4-L3 I- I	





Units with Earth Science Topics

Unit	Engineering and		Louis	iana Student	Standards Sc	cience	
Oilit	Science Fields	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
Catching the Wind: Designing Windmills Also listed with Physical Science	Mechanical Engineering Weather	K-ESS2-1			3-ESS2-2 3-PS2-1 3-PS2-2		
Now You're Cooking: Designing Solar Ovens	Green Engineering					4-ESS3-1	5 5000 4
Also listed with Physical Science	Energy and Energy Resources					4-PS3-2 4-PS3-4	5-ESS3-1
A Slick Solution: Cleaning an Oil Spill	Environmental Engineering	K-ESS2-1 K-ESS3-1					5-ESS2-1 5-ESS2-2
Also listed with Life Science	Ecosystems	K-ESS3-3	ESS3-3				5-ESS3-1
Solid as a Rock: Replicating an Artifact	Materials Engineering Rocks and Minerals			2-PS1-1 2-PS1-2			
A Stick in the Mud: Evaluating a Landscape	Geotechnical Engineering Landforms and Maps			2-ESS1-1	3-ESS3-1	4-ESS2-1 4-ESS2-2 4-ESS3-2	
Taking the Plunge: Designing Submersibles Also listed with Physical Science	Ocean Engineering Sinking and Floating					4-ESS2-2	5-ESS2-1 5-ESS2-2 5-PS1-3
Water, Water Everywhere: Designing Water Filters	Environmental Engineering Water				3-LS4-4		5-ESS2-1 5-ESS3-1

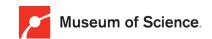




Units with Physical Science Topics

Unit	Engineering and		Louis	iana Student	Standards So	cience	
Offic	Science Fields Kir	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
An Alarming Idea: Designing	Electrical Engineering					4-PS3-2	5-PS1-3
Alarm Circuits	Electricity					4-PS3-4	J-F31-3
The Attraction Is Obvious:	Transportation Engineering				3-PS2-3		5 DO4 0
Designing Maglev Systems	Magnets				3-PS2-4		5-PS1-3
Catching the Wind: Designing Windmills	Mechanical Engineering				3-PS2-1 3-PS2-2	4-PS3-1 4-PS3-4	
Also listed with Earth Science	Weather				3-ESS2-1	4-ESS3-1	
To Get to the Other Side:	Civil Engineering	K-PS2-1			3-PS2-1		5-PS2-1
Designing Bridges	Forces	K-PS2-2			3-427-1		5-425-1
Lighten Up: Designing	Optical Engineering		1-PS4-2			4 DC4 2	
Lighting Systems	Light		1-PS4-3			4-PS4-2	
A Long Way Down:	Aerospace Engineering			3-PS	3-PS2-1		5 000 4
Designing Parachutes	Solar System				3-PS2-2		5-PS2-1
Marvelous Machines: Making	Industrial Engineering				3-PS2-1		5-PS2-1
Work Easier	Simple Machines				3-427-1		5-425-1
Now You're Cooking: Designing Solar Ovens	Green Engineering					4-PS3-2 4-PS3-4	
Also listed with Earth Science	Energy					4-ESS3-1	

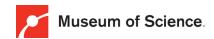
Physical Science continues on next page.





Units with Physical Science Topics, continued

Unit	Engineering and	Louisiana Student Standards Science						
Omt	Science Fields	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	
Sounds Like Fun: Seeing	Acoustical Engineering		1-PS4-1			4-PS3-2 4-PS4-1		
Animal Sounds	Sound		1-PS4-4			4-PS4-1 4-PS4-3		
A Sticky Situation: Designing	Materials Engineering			2-PS1-1 2-PS1-2			5-PS1-4	
Walls	Earth Materials			2-PS1-2 2-PS1-3			J-F31-4	
Taking the Plunge: Designing Submersibles	Ocean Engineering			2-PS1-1			5-PS1-3 5-ESS2-1	
Also listed with Earth Science	Sinking and Floating			2-PS1-2			5-ESS2-2	
A Work in Process: Improving a Play Dough Process	Chemical Engineering Process Engineering			2-PS1-1 2-PS1-2			5-PS1-3 5-PS1-4	
,	Solids and Liquids							



Engineering Essentials Alignment to Louisiana Student Standards Science, 2017



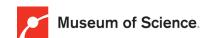
Grade	Unit	Engineering Field	Louisiana Student Standards Science
1st	Designing Lighting Systems	Optical Engineering	1-PS4-2 1-PS4-3
2nd	Designing Hand Pollinators	Agricultural Engineering	2-LS2-2 2-PS1-1 2-PS1-2
3rd	Designing Maglev Systems	Transportation Engineering	3-PS2-3 3-PS2-4
4th	Designing Solar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



EiE® Engineering Adventures Alignment to Louisiana Student Standards Science, 2017



Unit	Engineering Fields and	Louisia	na Student Standards	Science
Offit	Science Connections	Grade 3	Grade 4	Grade 5
Bubble Bonanza: Engineering	Materials Engineering			5-PS1-3
Bubble Wands	Matter and Its Interactions			5-PS1-4
Go Green: Engineering Recycled	Green Engineering	3-PS2-1	4-PS3-1	
Racers	Energy, Forces	3-1 32-1	4-1 00-1	
In Good Handay Engineering	Materials Engineering		4-PS3-2	
In Good Hands: Engineering Space Gloves	Properties of Materials, Energy Transfer	3-ESS3-1	4-PS3-2 4-PS3-3	5-PS1-3
Liftoff: Engineering Rockets and	Aerospace Engineering	3-PS2-1		5-PS2-1
Rovers	Forces and Interactions	3-1-32-1		J-F3Z-1
Light Up the Night: An Electrical	Electrical Engineering		4-PS3-2	5-PS1-3
Engineering Challenge	Electric Circuits, Light		4-PS3-4	5-F31-3
Music to My Ears: An Acoustical	Acoustical Engineering		4-PS3-2	
Engineering Challenge	Sound		4-PS4-1	
The Sky's the Limit: Engineering	Aeronautical Engineering	3-PS2-1 3-PS2-2		5-PS2-1
Flying Technologies	Forces and Interactions	3-ESS2-2 3-ESS2-2		J-F 32- I



EiE® Engineering Adventures Alignment to Louisiana Student Standards Science, 2017



Unit	Engineering Fields and	Louisiana Student Standards Science				
Offit	Science Connections	Grade 3	Grade 4	Grade 5		
Shake Things Up: Engineering Earthquake-Resistant Buildings	Earthquake Engineering Earthquakes	3-PS2-1	4-ESS3-2			
A Slippery Slope: Engineering an Avalanche Protection System	Avalanche Engineering Forces and Interactions	3-PS2-1 3-PS2-2	4-PS3-2 4-PS4-1 4-ESS3-2			
Hop to It: Safe Removal of Invasive Species	Mechanical Engineering Environmental Science	3-PS2-1 3-LS4-2 3-LS4-3 3-LS4-4				
To the Rescue: Engineering Aid Drop Packages	Package Engineering Energy, Forces		4-PS3-3			



EiE® Engineering Everywhere Alignment to Louisiana Student Standards Science, 2017



Unit	Engineering Field	Science Topics	Louisiana Student Standards Science			
Offic	Linginieering i leid	ocience ropics	Grade 6	Grade 7	Grade 8	
Don't Runoff: Engineering an Urban Landscape	Environmental Engineering	Natural Resources Earth and Human Activity	6-MS-LS2-1 6-MS-ESS3-4	7-MS-LS2-5 7-MS-LS2-4	8-MS-ESS3-3	
Food for Thought: Engineering Ice Cream	Process Engineering	Matter Energy Transfer	6-MS-PS4-2	7-MS-PS1-2	8-MS-PS1-6	
Go Fish: Engineering Prosthetic Tails	Biomechanical Engineering	Structures and Function in Animals			8-MS-LS1-4	
Growing Up: Engineering Vertical Farms	Agricultural Engineering	Light Photosynthesis Natural Resources	6-MS-PS4-2	7-MS-LS1-6 7-MS-LS2-5	8-MS-LS1-4	
It's in the Bag: Engineering Bioinspired Gear	Materials Engineering Bioinspired Engineering	Structures and Function in Animals			8-MS-LS1-4	
Outbreak Alert!: Engineering a Pandemic Response	Biomedical Engineering	Cells, Viruses Public Health	6-MS-LS1-1	7-MS-LS4-4	8-MS-LS3-1	
Testing the Waters: Engineering a Water Reuse Process	Process Engineering Water Resource Engineering	Natural Resources	6-MS-ESS3-4	7-MS-LS2-5	8-MS-ESS3-3	
Worlds Apart: Engineering Remote Sensing Devices	Remote Sensing Engineering	Light Solar System	6-MS-PS4-2 6-MS-ESS1-3		8-MS-ESS2-3	
Plants to Plastics: Engineering Bioplastics	Chemical Engineering	Properties of Matter Chemical Reactions		7-MS-PS1-2	8-MS-ESS3-3 8-MS-PS1-3	
It's About Time: Engineering Timers	Mechanical Engineering	Physical Science	ETS.MS.1B.a	ETS.MS.1B.a	ETS.MS.1A.a ETS.MS.1C.a ETS.MS.1C.b	
Put a Lid on It: Engineering Safety Helmets	Biomechanical Engineering	Forces and Motion Nervous System	6-MS-PS2-1 MS-LS1-8			
Here Comes the Sun: Engineering Insulated Homes	Green Engineering	Thermal Energy Transfer Properties of Matter Natural Resources Earth and Human Activity	6-MS-PS4-2 6-MS-ESS3-4	7-MS-PS1-4 7-MS-PS3-4	8-MS-PS3-3 8-MS-ESS3-3	