



**ByDesign**

A Journey to Excellence through Science

# Engineering Units

Correlation to By Design Science and VictoryVR, a virtual reality supplemental resource.

**Kendall Hunt**  
publishing company



Unit	Engineering Design: Optimization	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8
<b>Exp 1</b>	Field Trip 1: Quad Cities Skate Park		C11L5, C13L1-3		C12L1-4, C13L2-3	
<b>Exp 2</b>	Interactive: Word Search					
<b>Exp 3</b>	Journey Exp: Optimization	EPU4	EPU1, EPU2, EPU4	EPU2	EPU2, EPU4	EPU1, EPU2, EPU3
<b>Exp 4</b>	Theater 2: Good Better Best	EPU4	EPU1, EPU2, EPU4	EPU2	EPU2, EPU4	EPU1, EPU2, EPU3
<b>Exp 5</b>	Teacher Demo: Cooking with Wendy	EPU2				
<b>Unit</b>	<b>Engineering Design: Solutions</b>					
<b>Exp 1</b>	Field Trip: Solar Farm in Albuquerque, NM		C11L2	EPU1, C13L2-3	C14L1-4	
<b>Exp 2</b>	Interactive Game: "Racing for Answers"					
<b>Exp 3</b>	Theater 1: George Washington Carver	EPU4	EPU2	EPU2		EPU1, EPU3
<b>Exp 4</b>	Theatre 2: Finding Solutions	EPU4	EPU4	EPU1, EPU2, EPU3	EPU2, EPU4	EPU1, EPU2, EPU3
<b>Exp 5</b>	Teacher Demo: Drag Racing with Wendy	EPU4	C13L1-3		EPU4, C12L1-4	
<b>Unit</b>	<b>Engineering Design: Delimiting</b>					
<b>Exp 1</b>	Field Trip: Kitty Hawk, NC		EPU4, C13L1, C13L3		EPU4, C12L1-4	
<b>Exp 2</b>	Interactive: [Escape Room]					
<b>Exp 3</b>	Movie Theater 1: Where to Begin		EPU4, C13L1, C13L3		EPU4, C12L1-4	
<b>Exp 4</b>	Movie Theatre 2: The Importance of Failure	EPU4	EPU1, EPU2, EPU4	EPU2, EPU3	EPU2, EPU4	EPU1, EPU3
<b>Exp 5</b>	Teacher Demo: Spinning With Wendy	EPU4	EPU4, C13L1, C13L3	EPU2	EPU4, C12L1-L4	

**KEY:** EP-Engineering Practice, U-Unit, C-Chapter, L-Lesson



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Unit	Engineering Design: Process	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8
<b>Exp 1</b>	Field Trip: Roswell, NM	EPU4	EPU1, EPU2, EPU4	EPU1, EPU2, EPU3	EPU2, EPU4	EPU1, EPU2, EPU3
<b>Exp 2</b>	Interactive Experience: Sort the Scientific Process					
<b>Exp 3</b>	Theater 1: Cultures	EPU4	EPU1, EPU2, EPU4	EPU1, EPU2, EPU3	EPU2, EPU4	EPU1, EPU2, EPU3
<b>Exp 4</b>	Theatre 2: Way of Knowing	EPU4	EPU1, EPU2, EPU4	EPU1, EPU2, EPU3	EPU2, EPU4	EPU1, EPU2, EPU3
<b>Exp 5</b>	Teacher Demo: Wendy Martin: Egg Drop Experiment	EPU4	EPU1, EPU2, EPU4, C11L1, C13L1	EPU1, EPU2, EPU3	EPU2, EPU4, C12L2-4	EPU1, EPU2, EPU3
<b>HS Unit Engineering &amp; Technology: Animals and Plants Biotechnology</b>						
<b>Exp 1</b>	Field Trip: Agriculture Solutions	C1L4		C1L2-3	C4L1-4	
<b>Exp 2</b>	Interactive: GMO Café					
<b>Exp 3</b>	Story 1: Save the Bees	C1L4, C3L2-4	C4L3	C3L1	C4L1-4	C2L3-4, C3L1-3, C4L3-5
<b>Exp 4</b>	Story 2: Sustainable Farming & the Super Weed	C3L4	C4L3	C3L1	C4L1-4	C2L3-4, C3L1-3, C4L3-5
<b>Exp 5</b>	Teacher Demo: Genetic Engineering with Wendy	C1L2		C3L1	C4L1-4	

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