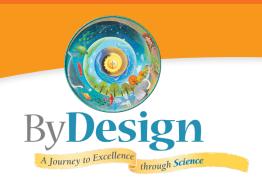






llm:t	Forces 9 Interestions	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8
Unit	Forces & Interactions	Grade 4	Grade 5	Grade 6	0.0.0.0.	Grade 8
Exp 1	Field Trip 1: San Francisco Street		C13L2-3/ PSC10		C12L3-4	
Exp 2	Interactive: Simple Machines: Classify the Machine		C14L2-3/ CSC13/PS14		C13L1-4	
Ехр 3	Theatre 1: Forces in Motion	PS9	C14L2-3/ PSC13/CSC13		C13L1-4/ CSC8/CSC12	
Exp 4	Comic book: Isaac Newton				C12L3-4	
Exp 5	Teacher Demo: Wendy Martin-Game of Billiards		C13L2-3		C12L2-3, C14L2	
Unit	Synthetic Materials					
Ехр 1	Field Trip 1: Football Field	C10L1		C11L1, C12L3		C11L1, C13L2
Exp 2	Interactive: [Escape Room]					
Ехр 3	Theater 1: Surrounded by Synthetics	C10L1/ ST10		C11L1, C12L3/ PSC11/CSC11		C11L1, C13L2
Exp 4	Theatre 2: Thermal Energy		C11L2		C14L3-4	
Exp 5	Teacher Demo - Anatomizing with Wendy*			C11L1, C12L3		C11L1, C13L2
11	Mana					
Unit	Waves					
Exp 1	Field Trip 1: Radio Telescope, North Liberty	C9L1	C12L5		C8L3, C11L1, L3/ PSC10/CSC11	PSC14
Exp 2	Interactive: Boulder Roll					
Ехр 3	Comic: Hedy Lamarr & Frequency Hopping		C12L1-2		C11L1, L3	
Exp 4	Theatre 2: Waves Are Everywhere		C12L1-3		C11L1, L3-4/ PSC13/STC14	
Exp 5	Teacher Demo: Waving With Wendy		C11L2-3, C12L1-2		C11L1, L3-4	
	*could be used in a&p lesson					







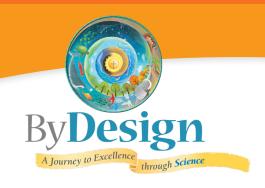
Unit	Energy	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8
Exp 1	Field Trip : Stinson Beach, CA		C11L1		C11L2, C14L1-2	
Exp 2	Interactive: Word Search					
Exp 3	Movie Theatre 1: Transformation of Energy		C11L1, C14L1-2			
Exp 4	Movie Theatre 2: Electric & Gravitational Fields	C11L1-2	C12L1	C13L1-2, L4, C14L1-3	C14L1-2	
Exp 5	Teacher Demo: Kitchen Physics with Wendy	C11L1, L3	C11L1-3, C13L1	C13L1-4, C14L2-3	C14L1-2	C14L2-3
Unit	Molecular Interaction					
Exp 1	Field Trip: Backyard Bonfire	C10L5		C11L2, L4		C14L2
Exp 2	Interactive Exp: Boulder Roll					
Exp 3	Comic: Mario Molina	C10L1, L5	C8L1	C11L4, C12L1-2		C8L1, C9L14, C11L1, C12L1-2, C14L1-2
Exp 4	Journey Exp: When Molecules Meet	C10L5		C11L3-4		C13L1-3, C14L1-2
Exp 5	Teacher Demo: Flame Testing with Wendy		C11L2		C14L1-2, L4	C14L2-3
Unit	Properties of Matter					
Exp 1	Field Trip: Reed Gold Mine	C8L1, L3, C10L1		C7L1-3, C11L1-3, C12L1-2/ PSC11		C9L1-2, C11L1, C12L2-3
Exp 2	Interactive Game: [Racing for Answers]					
Exp 3	Movie Theater 1: Matter	C10L1-4		C11L1-4, C12L1-4/ CSC11		C11L1-3, C12L1-5, C13L1-3, C14L1-13
Exp 4	Comic: The First Lady of Physics			C12L1-2		
Exp 5	Teacher Demo: What's Matter? with Wendy	C10L1-2/ CSC10		C11L1-4		C11L1







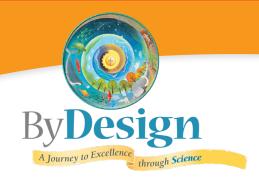
HS Unit	Structure & Properties of Matter	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8
Ехр 1	Field Trip: Iowa 80 Trucking Museum	C10L1-5	C13L3, C14L1-3	C11L1-3, C12L2-3	C12L1-3	C11L1-2, C12L1-4
Exp 2	Interactive Trickybeard's Challenge					
Ехр 3	Story 1: The Periodic Table of Elements (script)	C10L1-5		C12L1-3		C12L2-4
Exp 4	Story 2: Reality Glue	C10L1-5	C11L2	C11L1-4, C12L1-4, C13L1	C14L3	C12L1-4, C13L1-2,C14L1-3
Exp 5	Teacher Demo: Metals: Alkali Earth vs Alkali with Wendy	C10L5		C12L1-2		C12L1-3
HS Unit	Chemical Reactions					
Ехр 1	Indy Motor Speedway Museum	C10L5	C11L1-L2, C13L1, C14L3		C12L3L4, C13L1	
Exp 2	Stoichiometry		C11L3-L4	C12L1-L4		C12L1-L5, C13L3, C14L1-L3
Ехр 3	Energy Breakdown		C11L1-L2,	C11L4	C7L1, C14L1-L4	L11-L2, C14L1-L3
Exp 4	Reacting With Wendy			C10L3-L4		C11L2-L3, C13L1-3, C14L1-L3
HS Unit	Biochemistry					
Exp 1	Making Cheese At Hennings	C10L5		C11LL2-L4, C12L3-L4,		C6L3, C11L3, C13L2-L3, C14L2-L3
Exp 2	Pasteur & Roux: Vaccinating The Masses*		C7L1-L3	C2-PS	C1L2, C6L1-L4	
Ехр 3	Solar Flares & CMEs	C9L2			C8L1-3, C9L1	C7L3-L3
Exp 4	Laughing Gas With Wendy		C5L2	C1L1-, L2, C2LL3, C3L1-L3, C6L4-L5		







HS Unit	Forces and Interactions	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8
Ехр 1	Concussion Testing At Purdue		C11L1, C13L1-L3, C13PS	C5L1-L2, C6L2, U2EP	C12L1-L4, C13L1, C14L1-L2	C6L3, C7L1-L3, C11- T&S
Exp 2	Issac Newton: Pool Shark		C13L1, C13L3, C13PS		C12L3-L4	
Ехр 3	Struck by Lightning		C8L1-L3	C6L2-L3, C13L1, C13S&T		C8L1, L3-L4
Exp 4	Transforming with Wendy	C11L2-L3		C13L1-L2, L4	C14L1-L2	
HS Unit	Energy					
Ехр 1	Ludington Storage Power Plant	C3L4, C11L1-L3	C11L1	C14L2-L4	C13L3, C14L1-L2	C9L1
Exp 2	Entropy For Dessert	C10L2	C11L2		C14L2-L4	
Exp 3	The Tao of Pinball		C11L1-L2		C14L1-L4	
Exp 4	Poo Power With Wendy	C3L4, C8L3	C8L4, C11L1-L3	C6L4, C12L1, C14L4	C1L2C14L1-L4	C9L1-L3, C12L5, C13L2-3,C14L3
HS Unit	Waves & Electromagnetic Spectrum					
Exp 1	Laser Tag		C12L1-L3	C5L1	C11L1-L4	
Exp 2	Marie Curie & Radiation		C12LL1-L2		C8L3, C11L1-L4, C13CS, C14L1	C12L5
Ехр 3	Makin' Waves		C11L2-L3, C12L1-L2	C2L1, C3L3, C4L1-L4,	C11L1-L3, C14L1-L4	
Ехр 4	Microscopy With Wendy	C1L4	C1L1	C4S&T	C1L3-L5	C2L1-L3, C5L3



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





HS Unit	Mechanics	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8
Ехр 1	Rube Goldberg Machine		C11L1, C13L1-L3, C13PS, C14L2-L3		C12L1-L4, C13L1-L3, C14L1-L2	
Ехр 2	Newton's 2nd Law of Bowling		C13L1-L3, C13PS		C12L1-L4, C14L1-L2	
Ехр 3	Brush's Mill	C11L2	C11L1	C13L2-L3, C14L3-L4	C13L3, C14L1-L2	
Ехр 4	Imaging with Wendy	C4L1	C6L1,C12L1-L2	C4L1-L5	C7L1-L2, C11IL1-L4	C7L2-L3

KEY: FM-Front Matter, U-Unit, C-Chapter, L-Lesson, Ol-Open Inquiry, EP-Engineering Practice, PS-People In Science, CS-Careers In Science, ST-Science & Technology