

Introduction to Innovation 2017
Case Western Reserve University

	Monday (6/26)	Tuesday (6/27)	Wednesday (6/28)	Thursday (6/29)	Friday (6/30)
		Driving question: How does the structure of a bridge affect its strength and how can we use different materials to design a bridge?	Driving question: How do properties of materials impact their function?	Driving question: What interactions structure ecosystems, or How do make sure the fish in my lake are really big?	Driving question: Is it possible to walk on water?
9:00 AM	Introductions	Standards based science (Bill and Jim): EiE Unit- To Get To The Other Side	Standards based science (Alp): Structural properties of candy bars	Standards based science (Jim): Lessons from Great Lakes in My World related to ecosystems, food webs, energy flow, nutrient cycling.	Standards-based science: Properties of materials (Jim)
	Goals, background, and expectations (Jim)	Lesson 1 (Bill/Jim)	Graph data (Alp)	Biology and chemistry of Wade Lagoon.	
	Why do students need good science: Designing mixtures- Part 1 (Bill)	Lesson 2 (Bill/Jim)	Use EDA template to design experiment (Jim)	Introduce Water Warriors (Kelly, Bana, Hunter, Jiansheng)	Surface Tension: Soap Boats and Walking on Water (Mike)
			Conduct a fair test (All)		
Noon(ish)	Lunch	Lunch (Yoga on the quad)	Lunch (BBQ)	Lunch (Farmers Market @ UH)	Lunch
12:45 PM	Designing mixtures - Part 2 (Bill)	Lesson 3 (Bill/Jim)	Analyze data and present results (All)	DIY equipment (plankton net, Secchi disc, water sampler)	Develop a way to test the properties of materials that have been pushed through pores (Mike)
		Present their designs to the group	Image busted chocolate bars (Amir)		
	Introduction to Design - Reflect on the experience teachers just had to derive the EiE engineering design process (Jim)	Lesson 4 (Bill/Jim)	Design a material to build an earthquake proof house (apply principles to a new situation)	Discussion: Design challenges and solutions to constructing an inexpensive spectrometer (Kelly/Bana)	Lab tour/talk (Mike)
			Lab tour/talk (Alp)	Discussion of their research	Distribute certificates
3:00 PM	Adjourn	Adjourn	Adjourn	Adjourn	Adjourn