



Plastic			
	Week	Syllabus Content	Page
Introduce	1	Introduction – Stem Classroom Rules Safety Design Process	NA
	2	Primer: - What is Decomposition ➤ Setup & Week 1	2
		Vocabulary: biodegradable, decompose, extract, properties, flexible, stretch, elastic, liquid, solid, enzyme Mathematics: Variance	3 4,5
3	Primer: What is Decomposition? ➤ Week 2 Observation Investigation: - What is Starch?	2 6	
Teach	4 Long Week	Primer: What is Decomposition? ➤ Week 3 Observation Ask: The Problem Imagine: Researching the Ingredients	2 7,8 8
	5 Short Week (Thursday)	Primer: - What is Decomposition? ➤ Week 4 Observation Plan: Developing Tests & Preparing for Results	2 9,10
	6 Short Week (Friday)	Create: Making the plastic sheets Planning how to make bags from the flat sheets	11
	7	Create: Turning the sheets into plastic bags	NA
Evaluate	8	Test the Prototype Analyzing Properties & Improvement Plan	11 12
	9	KCFS Science Reports	
	10 Tests	KCFS Sharing & Presentations (Friday classes must start next project due to 2 week loss at the end of semester)	
Bridges			
Introduce	12	Primer: Forces Vocabulary (<i>dead load, live load, breaking load, tension, compression, dimensions, abutments, anchorages, model, grain</i>)	2 3
	13	Math Practice: - Dimensions Investigation: - Metric Units of Capacity	4 5,6,7,8,9
Teach	14	Ask & Imagine: - basic beam bridge Plan: - coming up with ideas & sharing	10,11 12
	15	Plan: - drawing a detailed plan Tool Safety Reminder: Knives Create: - starting the build	13 14
	Evaluate	16	Create: - Building the bridge
17		Create: - Finishing the bridge and sharing designs with others	14
18 S. Week		Test & Evaluate : - Comparing bridges using ratios	14,15,16
19 Test Week		KCFS Science Reports	
20-21	KCFS Sharing & Presentations		