Washington Township School District					
STEM/Makerspace Curriculum					
Grade:	4	Mystery Science	The Birth of Rocks/Energizing Everything		
		Unit/Project Title:	Building a Stronger Bridge		
NJ Learning 4-PS3-4, 3-5-ETS1-1, 3-5-ETS1-2, 3-5-ETS1-3, 4-PS3-4, 3-5-ETS1-1, 3-5-ETS1-3					
Objective:		SWBAT design and test different bridge types			
STEM/ Unit Activities		Building a Stronger Bridge			
Suggested Assessments:		Exit TicketJournal (attached)			
Supplies Needed:		Per Group: Printer paper, Construction paper, 2 cups the same size, Ruler, Pen, Scissors, 25 pennies, 25 nickels			
Resources to Support Unit:		http://homeschool-101.com Building a Stronger Bridge St	/stem-activity-build-strong-bridges/ udent Hypothesis Sheet		

Washington Township School District						
STEM/Makerspace Curriculum						
Grade:	4	Mystery Science Unit/Project Title:	Birth of Rocks Mystery 3: Will a Mountain Last Forever? Mystery 4: How Could You Survive a Landside?			
NJ Learning Standard(s):	4-ESS1-1,	L, 4-ESS2-1, 4-ESS2.A, 4-ESS3-2, 4-ESS3.B				
Objective:		 SWBAT: Construct a model beach Analyze the effect of waves on a beach shoreline 				
STEM/ Unit Activities		Building Beaches				
Suggested Assessments:		Exit TicketJournal/Notebook				
Supplies Needed:		 Paint roller pan Dry measuring cup Sand (50-lb bag); clean beach sand can be purchased at your local hardware store. Water Plastic 500-mL water bottle Pencil Timer Digital camera Adult volunteer to help take pictures Ruler with millimeter markings Aquarium gravel (6 cups) Lab notebook 				
Resources to Support Unit:		http://stem-works.com/external/activity/468				

