

Column Challenge		Grade 3: Strong and Stable Structures	
Curriculum Connections	Topic	Structures and Mechanisms	
	Fundamental Concepts	Structures and Function	
Description How strong is paper? Fold and bend paper to see if different shapes lend more strength to a material. Investigate why columns are an effective building element for strong and stable structures.			
Big Ideas Structures need to be strong and stable to be useful		Overall Expectations <ol style="list-style-type: none"> investigate strong and stable structures to determine how their design and materials enable them to perform their load-bearing function demonstrate an understanding of the concepts of structure, strength, and stability and the factors that affect them 	
Specific Expectations <ol style="list-style-type: none"> investigate through experimentation how various materials and construction techniques can be used to add strength to structures describe ways to improve a structure's strength and stability describe ways in which different forces can affect the shape, balance, or position of structures 			