

Time: 2:06	Date: December 2, 2013
Subject: Science	Topic: Support Pillars

Objectives and Purpose Anticipated outcomes of the lesson	To determine whether one large pillar will support more mass than four smaller pillars.
Anticipatory set	We are going to pretend that we are architects and we have been asked to design support beams for a bridge.
Materials	Tape Scissors Cardboard Blocks to be used as masses Paper (8 ½ x 11)
Input	Discuss the question with the students: Will one large pillar support more mass than four smaller pillars?
Modeling	Write their hypotheses on the whiteboard. How many think that one large pillar will support more than four smaller pillars.
Guided Practice	Discuss how to design a “fair test” with the students. Review that for this to be a “fair test”, only one element can be changed at a time. The number of pillars is the element that will change. All others must stay the same: <ul style="list-style-type: none"> • the height of the pillars • the type of paper used • the amount of paper used to make the pillars • the cardboard placed on the pillars
Independent Practice	Students make one large pillar from a sheet of 8 ½ x 11 paper. Students make 4 small pillars by folding a sheet of paper into four equal parts. Cut on the folds. Roll and tape the paper to make four small pillars.
Closure/Evaluation	Students test the pillars.