Newspaper Tower		Name:	
Problem:			
Key Words: c	ompression, dead load, live load, sh	lear, tension, torsion	
Hypothesis: _			
Materials:	6 sheets newspaper 40 cm masking tape	meter stick electric fan	
Procedures:			
1. View the vic	deo "San Gimignano"		
2. What is mea	ant by a "load bearing wall"?		
3. What are a	few problems with "thick walls"?		
<b>4.</b> Create the t tear the newsp		2 sheets of newspaper. You may fold, bend or TAPE **	
5. Describe an	y difficulties that you experienced w	hile creating your tower.	
<b>6.</b> What did yo	ou do to overcome these difficulties?		

7. How fall is your tower?cm
<b>8.</b> You may now use <u>20cm</u> masking tape to make your tower taller. You may <u>NOT</u> use the tape to anchor the tower to the table. It must remain free standing.
9. Describe how your tower was improved. Please be specific
10. Set the electric fan 1m from your tower. Turn the fan to the lowest speed and aim the breeze toward your tower. Describe what happens.
11. Repeat step 10 two more times, increasing the wind speed each time. Describe how the change in wind speed affects your tower.
<b>12.</b> How can you change your design, using 2 more sheets of newspaper and 20cm of tape, to better withstand the force of wind?
<ul><li>13. Change your tower to test your hypothesis developed in step 12.</li><li>14. Test your changes by using the fan at different speeds.</li></ul>
15. Explain how your changes improved or did not improve your original design

State Your Conclusions (tell whether your hypothesis held true, answer the problem, tell what you learned, and apply this to a real world tuation)					