

## ***Recycled Towers Worksheet***

***Recyclable materials available:***

1 cardboard base	12 sheets of newspaper
4 aluminum cans	4 plastic bottles
6 yogurt cups	5 feet of masking tape
5 feet of string	

***Design:***

Draw a picture of the tower you want to build. Label all the materials in the design. Fill in the table below to show how much of each material you will need.

Materials	Quantity
Cardboard base	1
Aluminum cans	
Yogurt cups	
String	(how many feet?)
Newspaper	
Plastic bottles	
Tape	(how many feet?)

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

### ***Testing:***

For each trial, record whether or not your tower survived and how long it lasted. If your tower survived the whole trial, record 30 seconds.

Trial #	Wind Test		Earthquake Test	
	Survived? (Y/N)	Time (s)	Survived? (Y/N)	Time (s)
1				
2				
3				

### ***Sharing Results***

Draw a picture of your final design below and explain why you think this tower design was able to survive the wind test and the earthquake test. If you made changes to earlier designs, explain why and how that affected your new tower.