# Leaning Tower of Pasta Student worksheet

Name: Date:

## Define the following terms

Compression:

Tension:

Load:

Is spaghetti stronger in tension or compression?

Are marshmallows stronger in tension or compression?

## Hypothesis

Every scientist must form a hypothesis before he/she conducts an experiment. The hypothesis helps the scientist to design the experiment effectively.

What shapes should your structure incorporate in order to be as stable and strong as possible?

## Results

How tall was your structure?

How much weight did you put on your structure before it fell?

Why do you think some buildings held more weight than others before falling?

What materials would you choose next time if you were to build a structure? Why?

What shape did you use the most of when you built your structure? Why?

## Conclusions:

How did your structure change in shape and design during the building process? Does it look like your initial design?

Provide a detailed drawing of the structure you built.