**Unit 1: Fundamental of Science & Astronomy**

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**Part 1 - scientific method & evidence**

**First Activity**

**Blendspace**

Go to either

goo.gl/9NQAhg or

Read the following two readings and watch the two videos that are associated with the readings.

Come back to your group and using a whiteboard – discuss 3 things your learned, 2 things your found interesting and 1 thing you have a question on.

**Second Activity**

Spaghetti Bridge Lab (data collection, graphing and whiteboarding)

Students find a relationship between the number of spaghetti strands making a "bridge" and the largest number of masses that can be supported.



## Materials:

Uncooked long-strand spaghetti

Disposable plastic cups

String

Marbles

## Data Analysis: (Whiteboard)

Graph the data, draw a best-fit line, and determine the slope and y-intercept of the line.

Identify the independent and dependent variables. How is a dependent variable different from an independent variable?

What is meant by control of variables? How did you control variables? Why did you control variables?

How did you know you had collected enough data? What is the advantage of doing multiple trials?