

Name \_\_\_\_\_

## Rubber Band Variables

**Problem:** To identify variables in an investigation

**Materials:**

Wooden dowel or pencil

Rubber band

Paper clip

Masking tape

Washers

Ruler

**Procedure:**

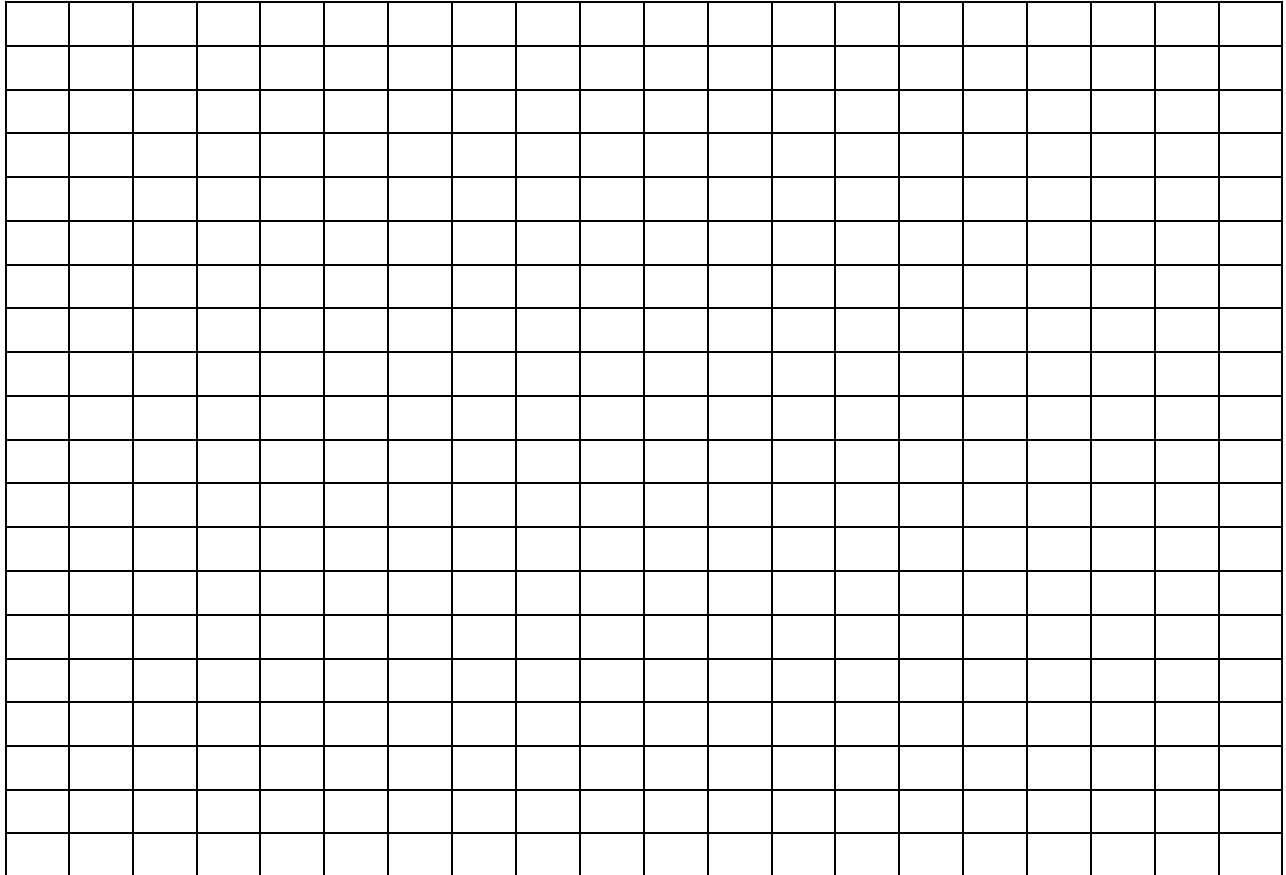
1. Tape the dowel to your desk so that it hangs over the edge.
2. Attach the paper clip to the rubber band, open one end of the rubber band to make a “hook” for the washers.
3. Hang the rubber band over the end of the dowel.
4. Measure the length of the rubber band in cm. Record this data.
5. Place 1 washer on the paper clip “hook”. Measure and record the length of the rubber band again.
6. Continue adding washers, one washer at a time, and measuring the rubber band until a total of 10 washers have been added.

**Data:**

Number of Washers	Length of Rubber Band in cm
0	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

**Analyze Data:**

Make a *line graph* to show your data. Remember title, labels, and units of measurement.



What relationship does this graph show?

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**Questions & Conclusions:**

1. Why did we use a line graph for this data?

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2. What was the independent variable in this investigation? (Which variable did you change?)

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3. What was the dependent variable in this investigation? (Which variable responded to what you changed? What did you observe and measure?)

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4. Which variables were controlled?

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