

## **Tongue Twister Graphing**

## Pick 2 tongue twisters (one long & one short) from the following:

- 1. I wish I could wash my Irish wristwatch.
- 2. Boldly, Blake bit the big black bear. Bitten by Blake, the black bear bled black-bear blood.
- 3. Three witches wished three wishes, but which witch wished which wish?
- 4. A kiss is the anatomical juxtaposition of two orbicularis oris muscles in a state of contraction.
- 5. Wendell's red-webbed gremlin wed Gwen's green iguana, while Gwen and Wendell wept.

## Do the following for each of tongue twister (on the same set of axis):

- During the first round, only one person will say the tongue twister.
- During the second round, the first person & a second person will say the tongue twister.
- During the third round, the first person, the second person, and a third person will say the tongue twister. etc....
- Time how long it takes to complete each of the individual rounds and place the time on the chart.
- Graph the # of people (round) on the x-axis and the time on the y-axis. (use 2 different colors to distinguish the tongue twisters)
- Answer the questions on the back of this page

# of	Short	Long
people	Tongue	Tongue
	Twister	Twister
1		
2		
3		
4		

## **Questions about your graph:**

- 1. Should a dot-to-dot line be drawn to connect the data, or should a straight line be drawn through the middle of the data?
- 2. Even though you did not measure the time required for 18 people to say the tongue twister, how can you use the graph to predict this time?
- 3. How many people could say the tongue twister in 70 seconds?
- 4. Explain why one line is steeper than the other.
- 5. How can we figure out the number of seconds the longer tongue twister takes per person?
- 6. Write a formula for the total time it takes for a group of people to say the tongue twister. Use this equation to predict the time it would take for 100 people to say the tongue twister.
- 7. Draw a sketch of what you think the data would look like if the first person said the tongue twister once, the second person twice, etc.