

Taking Puffin Graphing to Next Level...

Part I

Look at Data Table I below and discuss with your neighbor what type of graph would best display the data in the table. (Line or Bar Graph?)

Part II

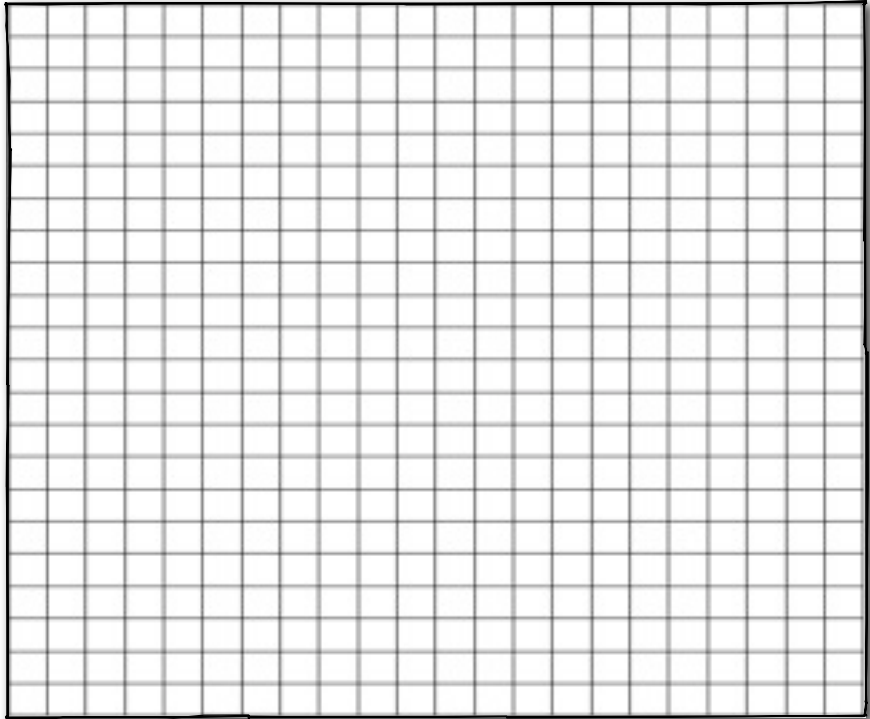
Make a graph using the data in Data Table I. Be sure to follow all the steps from the Puffin Chick Growth activity (*steps 1-7 on page 2 of the puffin chick growth activity*).

Repeat for Data Table 2...

Data Table 1:

Average growth rates of puffin chicks.

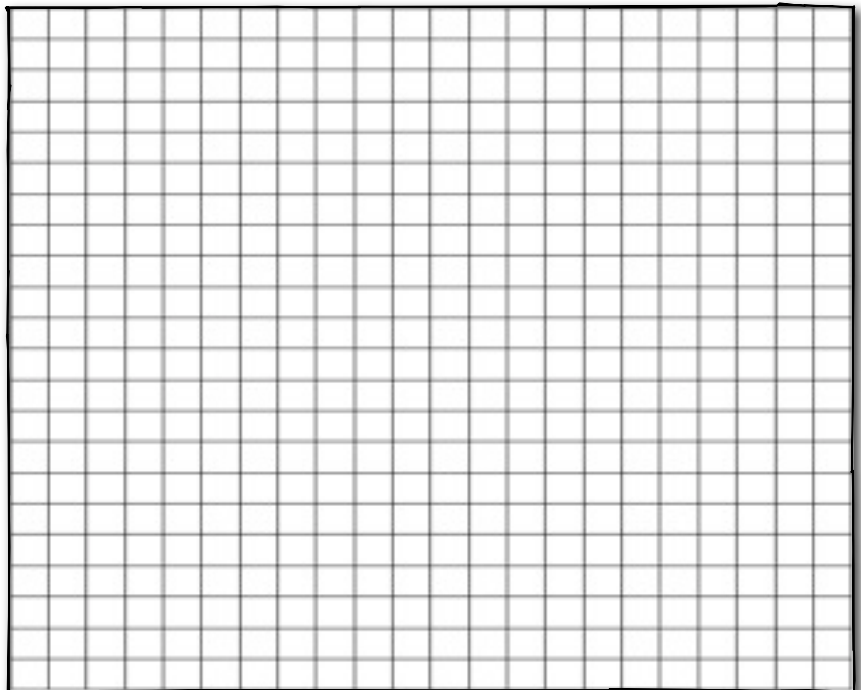
Year	Mass (g/day)
2004	7
2005	8
2006	10
2007	14
2008	12
2009	10
2010	17
2011	5
2012	16



Data Table 2:

Reproductive success of puffins.

Year	Reproductive Success
2004	0.00
2005	0.10
2006	0.30
2007	0.80
2008	0.70
2009	0.60
2010	0.95
2011	0.20
2012	0.75



Graphing Part II
Interpret your graphs...

Part III

1. Compare graphs 1 and 2 - do you see a similar trend occurring in both graphs? _____
2. Explain in your own words what you see happening that is similar in both graphs and how they might be related to one another:

Part IV

Data Table 3 contains the average ocean temperatures taken in the area where the puffins were studied.

1. **Make a graph from Data Table 3.**
2. Compare this graph to the graphs 1 and 2. Do you see a correlation (*relacion*) between these graphs? How might the information in Graph 3 be related to the information in Graphs 1 and 2?

Data Table 3: Average ocean temperatures

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012
Average temperature (deg C)	9	8	7.5	6	6.5	7	6	8	6.5

