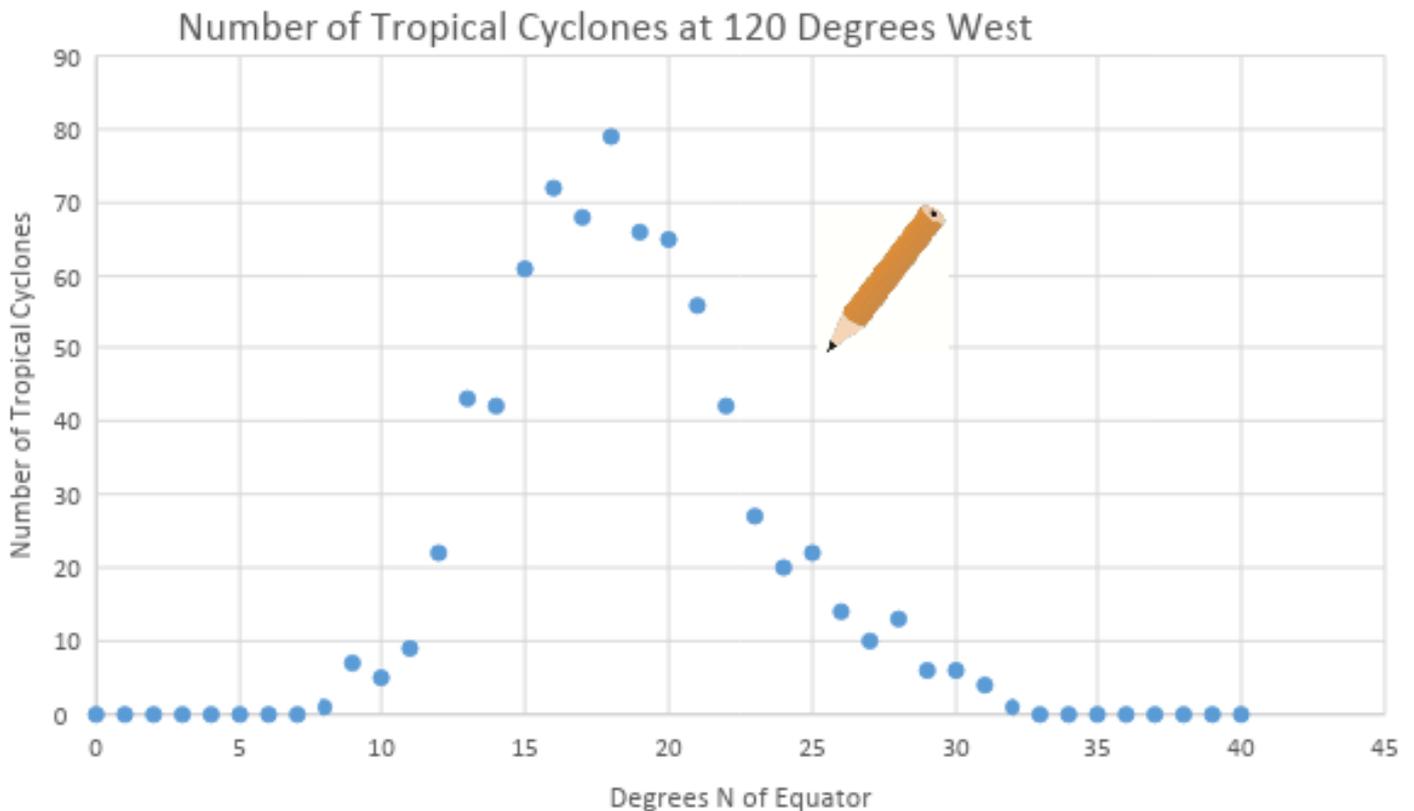


My NASA Data - Mini Lesson

Tropical Cyclone Counts Create Scatter Plot



Pencil image credit: <https://cliparts.zone/dipart/30469>

Mini Lesson

A **scatter plot** is a type of graph which shows the relationship, or correlation, between two variables. One variable is on the x axis and the other is on the y axis.

Scatter plots are very useful for understanding the correlation between two variables. The types of questions that might be answered with a scatter plot include:

- What is the relationship between variable # 1 and variable # 2?
- Does one variable go up when the other variable goes down?
- Does one variable go up when the other variable goes up?
- Is there a correlation between the two variables?
- Is there a positive, negative or no relationship between the variables?

Use the data table below to create a scatter plot of your own.

Data Table- Tropical Cyclones at 120° West from the Equator to 40° North

Latitude Degrees North	Number of Tropical Cyclones
0	0
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	1
9	7
10	5
11	9
12	22
13	43
14	42
15	61
16	72
17	68
18	79
19	66
20	65
21	56
22	42
23	27
24	20
25	22
26	14
27	10
28	13
29	6
30	6
31	4
32	1
33	0
34	0
35	0
36	0
37	0
38	0
39	0
40	0

Section A: Plan your Scatter Plot

1. What variable will be on the x-axis?
2. What variable will be on the y-axis?

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3. What title will you use?
 4. How many squares of the graph paper will you use for each unit on the x-axis?
 5. How many squares of the graph paper will you use for each unit on the y-axis?

Section B: Create the Scatter Plot Using the Answers to the Planning Questions

1. Draw and label the x-axis and the y-axis.
2. Label each axis.
3. Add the title.
4. Plot each point on the graph.

This is part of the [Tropical Cyclone Counts Graphing Bundle](#) and can be completed independently or with the other activities in the bundle.

Teachers who are interested in receiving the answer key, please contact MND from your school email address at larc-mynasadata@mail.nasa.gov.

Earth System Data Explorer

- [Number of Tropical Cyclones \(1842-2017\)](#)