

# Scatter Plot Project

**Group Members:** \_\_\_\_\_

## Overview

You and your team will choose a topic for your scatter plot project. With assigned tasks, you will work together to create a poster which includes the required information. You and your team will then present your project before your peers.

## Materials

Gather your materials and use them properly. Be sure to return all of your materials the way you found them.

- Paper
- Pencil
- Calculator
- Chart paper
- Markers
- Ruler

## Topic Ideas

Choose the topic idea you would like to use.

Compare the value of a car and the number of miles it has been driven.

Distance Driven (miles)	Value of Car (\$)
0	27,000
10,000	22,000
30,000	20,000
45,000	18,000
90,000	13,000
105,000	10,000
150,000	7,000

Compare the amount of time you spent practicing and your points scored during games.

Time Spent Practicing (hours)	Points Scored (points)
0	6
3	14
7	16
12	16
16	28
25	36
33	38

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Compare the amount of followers a singer has on Twitter and the amount of iTunes downloads they have.

iTunes Downloads (songs)	Twitter Followers (people)
400	0
600	100
18,000	2,000
5,000,000	1,000,000
2,000,000	18,000,000
4,000,000	62,000,000
6,000,000	90,000,000

Compare the amount of games a quarterback wins and his salary.

Games Won (games)	Salary (\$)
14	12,000,000
12	10,000,000
9	8,500,000
7	6,000,000
6	4,000,000
4	2,500,000
2	1,500,000

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Compare the amount you exercise and the amount of body fat you have.

Time Spent Exercising (hours)	Body Mass Index (%)
0	26
50	20
175	20
200	19
212	17
230	14
250	12

Compare the amount of homework you do and your score on the EOC.

Amount of Assignments Turned In (assignments)	Score on EOC (%)
10	45
18	51
26	76
36	72
43	80
51	81
65	93

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Compare the amount of time spent playing video games and the amount of time spent studying.

Time Playing Video Games (hours)	Time Studying (hours)
8	0.5
7	2.5
6.75	3
4	4
2.5	3
0.5	4.5
0	4.75

Compare the number of people enlisting in the military and the nation's unemployment rate.

Enlistment (people)	National Unemployment Rate (%)
3,500,000	11.4
2,250,000	10.8
750,000	9.3
500,000	8
215,000	6.8
160,000	4.6
120,000	4

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## Topic Ideas

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Compare a toddler's age to their height.

Toddler's Age (months)	Toddler's Height (inches)
18	28
21	28.25
24	29
27	29.75
31	30
35	31.5
36	31

Compare the number of miles driven and the amount of gas in the gas tank.

Miles Driven (miles)	Remaining Gas in Tank (gallons)
0	19
15	18.25
36	16.5
60	15
99	9
159	7.5
300	0.5

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Compare the amount of time spent working on Carnegie and the number of units completed.

Time on Carnegie (hours)	Units Completed (units)
0	0
4	3
6	4
9	6
11	9
14	11
15	12

Compare the number of payments made and the amount still owed on a loan.

Payments Made (payments)	Amount Owed (\$)
0	2,000
7	1,500
13	1,200
16	1,000
21	500
23	350
24	0

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Compare the number of books you read in a year and your reading speed (wpm).

Books read (books)	Reading Speed (wpm)
1	100
3	150
5	200
6	250
7	275
8	375
12	500

Compare the distance you get in Temple Run (Cheat Mode) and the amount of time spent playing.

Time Spent Playing (seconds)	Distance Travelled (meters)
0	0
4	500
10	1,000
25	1,500
30	1,800
39	3,000
45	3,300

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Compare the number of hours spent working at Publix and size of your paycheck.

Time Worked (hours)	Paycheck (\$)
24	150
29	210
32	230
37	265
38	285
41	315
46	400

Compare the amount of missing homework assignments you have and your grade.

Missing Homework Assignments (assignments)	Class Grade (%)
0	93
1	88
3	76
5	68
7	53
8	50
9	42



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## Topic Ideas

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Compare the number of glasses of lemonade bought and your total money from donations.

Number of Glasses bought (glass)	Money Earned From Donations (\$)
0	2.5
2	6
5	8.50
8	10
16	14
21	20.75
30	24.25

Compare the average number of years of schooling and your average salary.

Years in School After High School (years)	Average Salary (\$)
10	200,000
8	126,000
6	62,000
4	47,000
3	55,000
2	30,000
0	21,000

**Task:** Assign each person to one column. Be sure to follow the tasks in order and to **show all work**. Use additional paper if necessary.

Name:	Name:	Name:
Draw the coordinate grid.	Number each axis appropriately.	Title the scatter plot and label each axis.
Check that units are listed for each axis.	Plot the data points from the given table onto your coordinate grid.	Verify that the points are plotted correctly.
<p>What type of correlation does your data have?</p> <p>Positive Correlation</p> <p>Negative Correlation</p> <p>No Correlation</p>	In sentences, write what the correlation means.	Draw a line of fit/trend line. Be sure it goes through <b>at least two</b> of your data points.
List two points that the line of fit passes through and find the slope of the line.	Verify that the slope is correct.	Check that your slope matches your correlation. (A graph with a negative correlation should have a negative slope.)
Write the equation of the line in point-slope form.	Write the equation of the line in slope-intercept form.	Choose an x-value not given.
Plugging in your new x-value, what would be its corresponding y-value? (Hint: Plug x into your equation.)	Is this output reasonable? <b>Explain.</b> Add this new point to your graph.	Write an equation in slope-intercept form of a line that is parallel to your line of fit.
Describe what this parallel line could represent.	Write an equation in slope-intercept form of a line that is perpendicular to your line of fit.	Describe what this perpendicular line represents.

Be sure each teammate can answer and explain each task in preparation for your presentation.

Turn in your project materials and papers.

