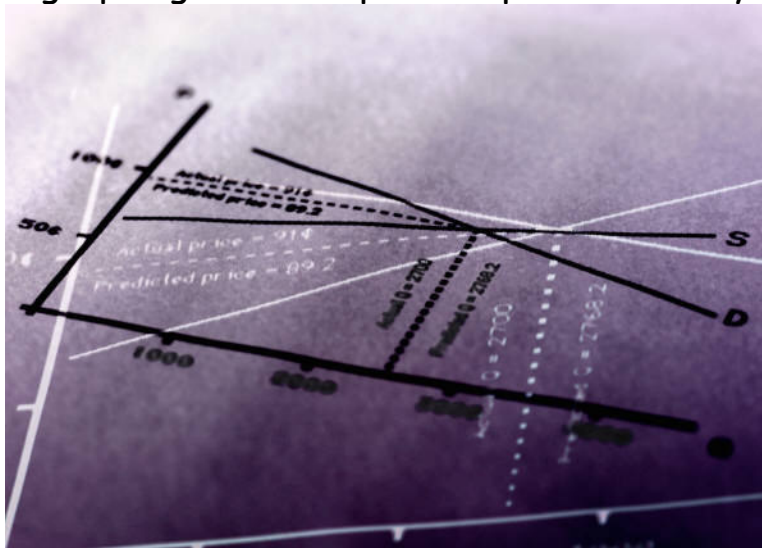


# Graphing and the Coordinate Plane

## Web-Quest

You will use the Internet to learn about how ordered pairs are used and how plotting points and graphing are an important parts of everyday life.



**This Web-Quest is Due Tuesday, August 31, 2010 at the beginning of class. If you have any questions please ask Mr. Reed or for assistance.**

You will find information on the internet to either answer or verify what you know.

Remember every link on the Internet may not be useful to you. Please be very careful with Wikipedia as this source can be modified and changed by others on the Internet. Scan the link and if you do not see information that will help you go back and search for more or different information and go to the next link.

Be sure to write down the links that you used to answer the questions and to fill in the chart. You must use at least three different sources to retrieve and verify your data.

To do this web-quest please fill in the blanks, save the file with your name and e-mail Mr. Reed the final filled in version of the web-quest. You may also want to use a sheet of notebook paper to keep track of answers and web-sites you use in the web-quest.

# Interesting Facts

1. What is the largest country in South America?
2. How does the largest country in South America size compare to the United States?
3. What language is predominately spoken in the largest country in South America?
4. What is the current Capitol of the largest country in South America?

What is the former Capitol of the largest country in South America?

5. How many states are there in the largest country in South America?
6. What is the major Geographical feature of the largest country in South America?
7. What are the 5 Largest Cities in the largest country in South America?

	Name of the Largest City	Population	Location in the Country	
1.			Latitude:	Longitude:
2.			Latitude:	Longitude:
3.			Latitude:	Longitude:
4.			Latitude:	Longitude:
5.			Latitude:	Longitude:

8. How many states are there in the United States?
9. What is the major Geographical feature of the United States?

10. What are the 5 Largest Cities in the United States?

	Name of the Largest City	Population	Location in the Country	
1.			Latitude:	Longitude:
2.			Latitude:	Longitude:
3.			Latitude:	Longitude:
4.			Latitude:	Longitude:
5.			Latitude:	Longitude:

Web-Sites used to retrieve and verify the information for questions 1 - 10 above:

1.

2.

3.

4.

5.

You will find information on the coordinate plane by doing a "[Google](#)" Search and typing in the phrase "Coordinate Plane"

Remember every link in the Google search may not be useful to you. Please be very careful with Wikipedia as this source can be modified and changed by others on the Internet. Scan the link and if you do not see information that will help you go back to the Google search page and go to the next link.

Use the links to fill in the answers to the questions below.

Be sure to write down the links that you used to fill in the chart and to answer the questions. You must use at least three different sources to retrieve and verify your data.

Remember to fill in the blanks, save the file as you go to save the information you have found and recorded. Please only e-mail Mr. Reed the final filled in version of the web-quest. You may also want to use a sheet of notebook paper to keep track of answers and web-sites you use in the web-quest.

# The Coordinate Plane

1. What Mathematician was the Coordinate Plane named after?

2. The Coordinate Plane is made from two number lines called \_\_\_\_\_ .

What are the names of the two number lines and describe how each is located on the Coordinate Plane.

The \_\_\_\_\_ Number Line is called the \_\_\_\_\_

The \_\_\_\_\_ Number Line is called the \_\_\_\_\_

3. Where the two number lines intersect is called the \_\_\_\_\_ .

4. The two number lines divide the Coordinate Plane into 4 \_\_\_\_\_ .

Please describe each of the 4 areas and where they are located in the Coordinate Plane.

	Name of the Area on the Coordinate Plane	Description of the Area's Location
A.		
B.		
C.		
D.		

5. A point is located on the Coordinate Plane using an \_\_\_\_\_ .

6. The numbers together used to locate the point are called \_\_\_\_\_ .

Two names for the first number is called the \_\_\_\_\_ or \_\_\_\_\_ .

The first number describes movement \_\_\_\_\_ or \_\_\_\_\_ from the point where the two number lines intersect.

Two names for the second number is called the \_\_\_\_\_ or \_\_\_\_\_ .

The second number describes movement \_\_\_\_\_ or \_\_\_\_\_ from the point where the two number lines intersect.

Web-Sites used to retrieve and verify the information for questions 1 - 6 above

- 1.
- 2.
- 3.
- 4.
- 5.

You will find information on the coordinate plane by doing a "[Google](#)" Search and typing in the phrase "Geographic Coordinate System"

Remember every link in the Google search may not be useful to you. Please be very careful with Wikipedia as this source can be modified and changed by others on the Internet. Scan the link and if you do not see information that will help you go back to the Google search page and go to the next link.

Use the links to fill in the answers to the questions below.

Be sure to write down the links that you used to fill in the chart and to answer the questions. You must use at least three different sources to retrieve and verify your data.

Remember to fill in the blanks, save the file as you go to save the information you have found and recorded. Please only e-mail Mr. Reed the final filled in version of the web-quest. You may also want to use a sheet of notebook paper to keep track of answers and web-sites you use in the web-quest.

# The Geographic Coordinate System

1. The Geographic Coordinate System is made from two important lines that are similar to the two number lines on the Coordinate Plane. The two important lines are the \_\_\_\_\_ and the \_\_\_\_\_.
2. The two lines divide the Earth into 4 parts, describe each of the 4 parts and where they are located on the Earth.

	Name of the Area on the Earth	Description of the Area's Location on Earth
A.		
B.		
C.		
D.		

3. A place is located on the Earth using coordinates called the \_\_\_\_\_ and \_\_\_\_\_.
4. The name for the first number is called the \_\_\_\_\_ and describes movement \_\_\_\_\_ or \_\_\_\_\_ from the horizontal line called the \_\_\_\_\_. A city located on this horizontal line is \_\_\_\_\_.

The name for the second number is called the \_\_\_\_\_ and describes movement \_\_\_\_\_ or \_\_\_\_\_ from the vertical line called the \_\_\_\_\_. A city located on this vertical line is \_\_\_\_\_.

5. The coordinates of Hamilton Southeastern High School are:  
\_\_\_\_\_ and \_\_\_\_\_
6. The coordinates of second largest city in the largest country in South America are:  
\_\_\_\_\_ and \_\_\_\_\_
7. How do the coordinates of Hamilton Southeastern High School and the second largest city in the largest country in South America compare?

8. What are 5 Major Landmarks in the United States and where are they located?

	Name of the Major Landmark	State	Location in the Country	
1.			Latitude:	Longitude:
2.			Latitude:	Longitude:
3.			Latitude:	Longitude:
4.			Latitude:	Longitude:
5.			Latitude:	Longitude:

9. What are 5 Major Landmarks in the largest country in South America and where are they located?

	Name of the Major Landmark	State	Location in the Country	
1.			Latitude:	Longitude:
2.			Latitude:	Longitude:
3.			Latitude:	Longitude:
4.			Latitude:	Longitude:
5.			Latitude:	Longitude:

Web-Sites used to retrieve and verify the information for questions 1 - 9 above

- 1.
- 2.
- 3.
- 4.
- 5.

Write a 1 Page Paper Typed that Compares and Contrasts the Cartesian Coordinate Plane with the Geographic Coordinate System. Discuss the information from this web-quest in your paper.

Insert 1 page paper here.

## Scoring of this Web-Quest

This web-Quest will be worth 34 points broken down as follows:

8 Points for the Interesting Facts

5 Points for Answering Questions

3 Points Sources

8 Points for the information on the Coordinate Plane

5 Points for Answering Questions

3 Points Sources

8 Points for the information on the Geographic Coordinate System

5 Points for Answering Questions

3 Points Sources

10 Points for 1 Page Paper Typed Comparing and Contrasting the Cartesian Coordinate Plane with the Geographic Coordinate System.

On any day you will lose 2 points for every time you are on a website that is not part of this web-quest or are off task and messing around.