Globe map with longitude and latitude lines

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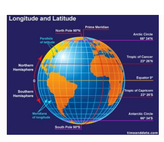

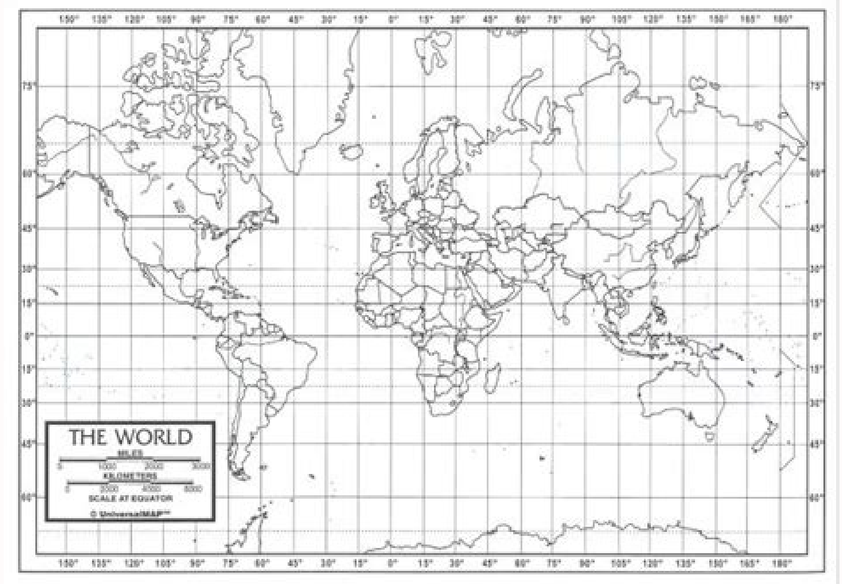

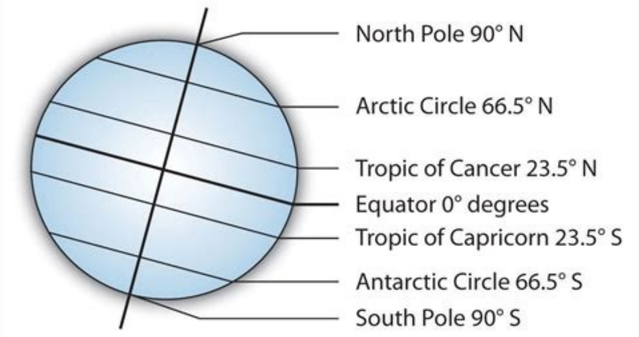

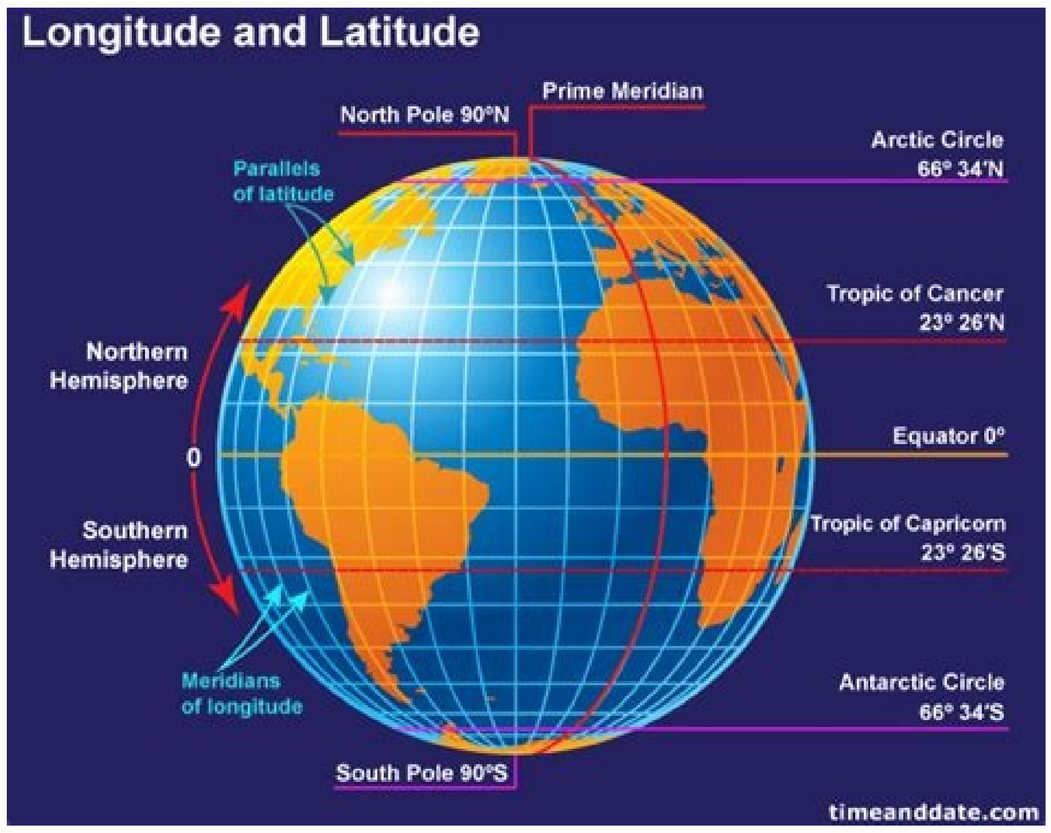

How to put in latitude and longitude in google earth. How to find latitude and longitude on a globe. How to map longitude and latitude. What is latitude and longitude on a globe.

Reading maps, especially when it comes to the earth as a spherical body, requires some knowledge of longitude and latitude. With these, you can find locations which becomes important, especially when you travel a lot so you know where you're going. For students, they can learn more about longitudes and latitudes by practicing on latitude and longitude worksheets so they can practice writing the estimated coordinates of each location or shape. What are latitude and longitude? The lines that run across a grid are the lines of latitude. The best example for this is the Earth's equator, the line that splits the planet into two hemispheres – the Southern Hemisphere and the Northern Hemisphere. The equator is normally designated as the 0 point of latitude. The lines of latitude north of the equator are the northern latitudes and those south of the equator are the southern latitudes. The lines of longitude, which are also known as meridians, are those that run down and up the grid. The counterpart of the Equator with regards to the longitude is the Prime Meridian. This line passes through England, Greenwich, and like the Equator, it also divides the globe into two hemispheres – the Western Hemisphere and the Eastern Hemisphere. Like the Equator, the Prime Meridian is the 0 point of longitude. The lines east of the Prime Meridian are the Eastern Meridians and those to the west are the Western Meridians. Some interesting facts about latitude and longitude Latitudes and longitudes are one aspect of the geographic coordinate system and you can use them to map out any point and every on the globe. The latitudes represent the coordinates that go around the world horizontally while the longitudes represent the coordinates running vertically from pole to pole. You can make your own latitude and longitude worksheets or download free longitude and latitude worksheets online. Aside from teaching your students how to find locations on these worksheets, you can also share these interesting facts: Latitude is an invisible line that runs horizontally around the globe from west to east. It begins with the Equator where the coordinates are 0°. The Equator splits the globe into the Southern and Northern Hemispheres. The lines of latitude run parallel to the Equator in both the Southern and Northern Hemispheres. These lines start at 0° and count to 90° South and 90° North. The North Pole has a latitude coordinate of 90° North while the South Pole has a latitude coordinate of 90° South. Longitude is the vertical line that runs around the globe from south to north. The Prime Meridian is where the coordinates are 0°. Longitudes divide the Earth into the Western Hemisphere and the Eastern Hemisphere along the Prime Meridian. You write latitude and longitude coordinates with decimals up to 4-decimal places to ensure accuracy. You can teach this to your students when they work on latitude and longitude worksheets. Combining latitude and longitude coordinates allows you to plot any point on the globe. Teaching latitude and longitude to students Here is a simple and easy way to teach your students about latitude and longitude. If you can make models or illustrations for each of these steps, you can help your students understand this concept much better: Use an overhead map or a large map hanging on one of the walls in your classroom. Create a latitude and longitude chart on the board. Give your students blank charts and free longitude and latitude worksheets for students to analyze while you teach. Select 3 to 4 locations to use for your demonstration. To find the latitude, start by locating the equator. Determine if the location is in the south or north of the equator. Find the two lines of latitude where the location lies in between. Demonstrate how to find the midpoint by dividing the difference between the two lines. Determine if the location is either closer to the midpoint or to one of the lines. Come up with an estimation of the latitude then write the answer on your chart. Ask your students to do the same on their blank charts or latitude and longitude worksheets. To find the longitude, start by locating the prime meridian. Determine if the location is to the west or east of the prime meridian. Find the two lines of longitude where the location lies in between. Determine the midpoint by calculating the difference between the two lines. Determine if the location is either closer to the midpoint or to one of the lines. Come up with an estimation of the longitude then write the answer on your chart. Ask your students to do the same on their blank charts or free latitude and longitude worksheets. Emphasize that you only use latitude to measure the south and north while you only use longitude to measure the west and east. Other activities for teaching latitude and longitude You can further help your students understand the concept of latitudes and longitudes by allowing them to practice with latitude and longitude worksheets. One good exercise is to apply the concept to the state and city of your students. First, find the latitude and longitude coordinates for the place where they're from. Following the steps in the previous section, guide your students as they complete the free latitude and longitude worksheets. This helps them find the location of the given coordinates, They should find their own hometown on the map. Then you can give them more activities to expand their knowledge: Create latitude and longitude cards On each of these cards, write the coordinates of a random location somewhere in the globe. Give one card to each of your students and have them search for and identify the location on a map. Create a latitude and longitude BINGO game Make a list of 24 random countries and their coordinates. Let the students write the names of all the 24 countries in the blocks on their game cards. Call out the coordinates of one country. Your students should place an "X" on the name of the country that matches the coordinates. The first player to get 5 "X's" in a row will win the game. 1 Identify lines of longitude. Lines of longitude are vertical lines that stretch across the globe, moving from the North to South Pole. The Prime Meridian divides lines of longitude. This is the zero degree mark. When writing out lines of longitude, use the symbol "°" to indicate degrees.[1] Lines of longitude run around Earth vertically. Moving to the east, each line of longitude increases by one degree. You use the letter "E" to indicate a line of longitude that falls to the east of the Prime Meridian. For example, a line of longitude could be 30°E. Moving to the west, lines of longitude also increase by one degree per line. You write lines of longitude that fall to the west of the Prime Meridian using the symbol "W" to indicate west. For example, a line of longitude could be 15°W. 2 Identify lines of latitude. Lines of latitude are horizontal lines dividing the globe. They stretch from east to west, starting at the equator. The equator's line of latitude is marked by 0 degrees. When writing latitude and longitude, use the symbol "°" to indicate degrees.[2] As you move north of the equator, lines of latitude increase by one degree until they reach 90 degrees. The 90 degree mark is the North Pole. Lines of latitude above the equator are marked using the letter "N" to mean North. For example, a line of latitude could be 15°N. As you move south of the equator, lines of latitude again increase by a single degree for each line until you reach the 90 degree mark. This is the South Pole. You use the symbol "S" to indicate south. For example, a line of latitude could be 30°S. Advertisement 3 Write the latitude and longitude coordinates. Find a location and figure out where the lines of latitude and longitude connect. For example, a location could be found along the latitude line 15°N and the longitude line 30°E. When writing latitude and longitude, write latitude first, followed by a comma, and then longitude.[3] For example, the above lines of latitude and longitude would be written as "15°N, 30°E." Advertisement 1 Identify the lines of latitude and longitude. Sometimes, you need to provide a more precise location than broad lines of latitude and longitude. Lines of latitude and longitude can be broken down by minutes and seconds. However, you must decipher the broad lines of latitude and longitude. Find which lines of latitude and longitude a location falls along.[4] For example, say your location falls on the latitude line 15°N and the longitude line 30°E. 2 Find the minutes between each line of latitude and longitude. The space between each line of latitude and longitude is divided into one degree. This degree can be further divided into minutes. Imagine there are 60 even minutes separating each line of latitude and longitude. You can find maps online that will help you pinpoint the precise number of minutes your location falls along between each line of latitude or longitude. An apostrophe should be used to indicate the number of minutes between lines.[5] For example, if you find there are 23 minutes between the latitude lines, you would write this as "23'". 3 Identify the seconds between each minute. Minutes are further divided into intervals of seconds. There are 60 seconds between each minute. Again, an online map can help you identify the precise number of seconds between each minute. A quotation mark is used to indicate the number of seconds.[6] For example, if there are 15 seconds between the minutes in your longitude line, you would write 15". 4 Write degrees, then minutes, then seconds. After finding the precise coordinates, in minutes and seconds, for your lines of latitude and longitude, write them out in the correct order. Start with your line of latitude, writing the degrees, then the minutes, then the seconds. Then, add the North or South as the direction. Then, write a comma followed by your line of longitude in degrees, then minutes, then seconds. Then, add East or West as the direction.[7] For example, say you have a line of latitude at 15°N, 24 minutes, and 15 seconds. You have a line of longitude at 30°E, 10 minutes, and 3 seconds. This line of latitude and longitude would be written as, 15°24'15"N, 30°10'3"E. Advertisement 1 Identify the point of latitude and longitude. You can also use minutes followed by decimal points to identify latitude and longitude. However, you must again start by identifying the broad lines of latitude and longitude. Figure out where the lines of latitude and longitude meet to pinpoint your location.[8] For example, say your location falls at 15°N, 30°W. 2 Figure out the minutes, including decimal points. Some maps identify minutes followed by decimal points rather than minutes followed by seconds. An online map should be able to provide you with the minutes broken down into decimals for each line of latitude and longitude. For example, a line of latitude may be found at 23.0256 minutes.[9] 3 Determine whether numbers are negative or positive. When using the degrees and decimal minutes system, you do not use directions like north, south, east, and west. Instead, you use positive and negative numbers to determine where locations fall on a map.[10] Remember, lines of latitude fall north or south of the equator. When using decimals to indicate latitude and longitude, positive numbers fall north of the equator and negative numbers fall south of the equator. The number 23.456 falls north of the equator, while the number -23.456 falls south. Lines of longitude fall east or west of the Prime Meridian. Positive numbers fall east of the Prime Meridian, while negative numbers fall west. For example, the number 10.234 falls east of the Prime Meridian while the number -10.234 falls west of the Prime Meridian. 4 Write out latitude and longitude. To write out the full location, start with the line of latitude. Follow this with the coordinates using minutes and decimals. Add a comma and then the line of longitude followed by its minutes and decimals. Remember to use positive and negative numbers to indicate the direction of coordinates. You do not use the degree symbol with this format.[11] For example, a line falls 15°N, 30°W. Identify the number of minutes and decimals and then write out the coordinates. The above example could be written as, "15 10.234, 30 -23.456." Advertisement 1 Find the latitude and longitude. Degrees of latitude and longitude are often broken down by decimals. Rather than minutes and seconds, lines representing one degree are divided to get decimals pinpointing the exact location. First, find the right degrees of latitude and longitude.[12] For example, say your location falls at 15°N, 30°W. 2 Figure out the decimals. An online map can break down lines of latitude and longitude using decimal points. Usually, decimal points are made up of five numbers.[13] For example, your location could be 15.23456 north and 30.67890 west. 3 Identify whether numbers are positive or negative. Rather than using the words north, south, east, and west to indicate direction, positive or negative numbers are used. For lines of latitude, lines north of the equator are positive while lines south of the equator are negative. For lines of longitude, lines east of the Prime Meridian are positive while lines west of the Prime Meridian are negative.[14] For example, the line of latitude 15.23456 would be north of the equator, while the line -15.23456 would fall south of the equator. A line of longitude written out 30.67890 would fall east of the Prime Meridian, while the line -30.67890 would fall west. 4 Write latitude and longitude, including decimals. It's simple to use the decimal degrees. You simply write out the line of latitude, including decimals, followed by the line of longitude, including decimals. Use positive or negative numbers to indicate direction.[15] For example, say a line falls 15°N, 30°W. Using the decimal degree system, you could write this as "15.23456, -30.67890." Advertisement Add New Question Question Are the digits to the right of the decimal point minutes and seconds respectively? Usually if you see format 12.345678°, this is not minutes and seconds, but decimal degrees. Ask a Question Advertisement This article was co-authored by wikiHow Staff. Our trained team of editors and researchers validate articles for accuracy and comprehensiveness. wikiHow's Content Management Team carefully monitors the work from our editorial staff to ensure that each article is backed by trusted research and meets our high quality standards. This article has been viewed 537,144 times. Co-authors: 10 Updated: July 25, 2022 Views: 537,144 Categories: Geography | Maps Print Send fan mail to authors Thanks to all authors for creating a page that has been read 537,144 times. "It fully covered the basics of the information on latitude and longitude. Further, I will love to find out latitude and longitude of a place in an easiest way and how to convert decimal to degree minutes and seconds or vice versa."..." more Share your story

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