

Directions on how to use Google Earth

You will need to download and install Google Earth from <http://earth.google.com/>

It is a safe and free download.

Computer requirements are:

PC:

Minimum:

- Operating System: Windows 2000, Windows XP, or Windows Vista
- CPU: Pentium 3, 500Mhz
- System Memory (RAM): 256MB
- Hard Disk: 400MB free space
- Network Speed: 128 Kbits/sec
- Graphics Card: 3D-capable with 16MB of VRAM
- Screen: 1024x768, "16-bit High Color" - DirectX 9 (to run in Direct X mode)

MAC:

Minimum:

- Operating System: Mac OS X 10.4.0
- CPU: 1 GHz
- System Memory (RAM): 256MB
- Hard Disk: 400MB free space
- Network Speed: 128 Kbits/sec
- Graphics Card: 3D-capable with 16MB of VRAM
- Screen: 1024x768, "Thousands of Colors"

(If you cannot use Google Earth – you are welcome to use google maps, mapquest, wall or deskmaps, or <http://www.acscdg.com>)

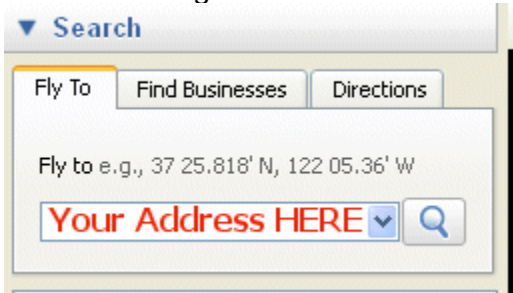
Once you have installed Google Earth, you will need to download the KMZ file from <http://www.jenuinetech.com/Projects/pwwg/information.html>. Once the KMZ file is downloaded, double click on it to open Google Earth.

The 10 place marks will be visible on the LEFT SIDE.....as well as marked on the map with RED push pins.

Before you begin measuring distance, visit each landmark, mark its location on the whole map worksheet, and learn a bit more about each landmark.

WHEN READY TO MEASURE:

Look to the right – find search and type your address in the search area:



Click on the Magnifying glass – or hit enter – to fly to your location.

Once there – you will need to create a PLACEMARK to indicate where your school is. (You might wish to zoom in a bit to get a closer and more precise placement. Your zoom tools are on the upper right of Google earth.)

To create a place mark, click on the yellow pushpin

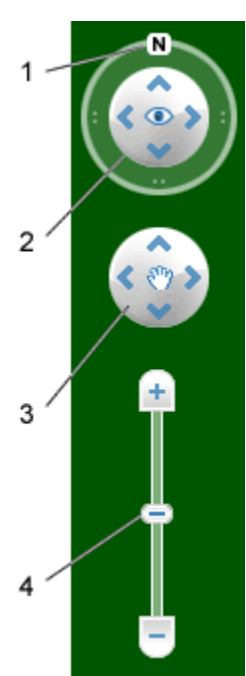


A large window will pop up –

- a. type in your school name in the Name area
- b. if you wish to change the color or shape of the pushpin – click on the yellow pushpin to the RIGHT of the name area
- c. click on OK. (this will be your starting location for ALL measurements!)

After you have made your place mark – you will be ready to start measuring with your classroom.

However, measuring is tricky – and you might wish to try it a few times on your own. You will need to use the navigation tools on your far right to help you with measuring.

	<ol style="list-style-type: none"> 1. Click the north-up button to reset the view so that north is at the top of the screen. Click and drag the ring to rotate your view. 2. Use the Look joystick to look around from a single vantage point, as if you were turning your head. Click an arrow to look in that direction or continue to press down on the mouse button to change your view. After clicking an arrow, move the mouse around on the joystick to change the direction of motion. 3. Use the Move joystick to move your position from one place to another. Click an arrow to look in that direction or continue to press down on the mouse button to change your view. After clicking an arrow, move the mouse around on the joystick to change the direction of motion. 4. Use the zoom slider to zoom in or out (+ to zoom in, - to zoom out) or click the icons at the end of the slider. As you move closer to the ground, Google Earth swoops (tilts) to change your viewing angle to be parallel to the Earth's surface. You can turn off this automatic tilt (Tools > Options > Navigation > Navigation controls; Mac: Google Earth > Preferences > Navigation > Navigation controls). <p>(from google earth help)</p>
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To measure distance.....

1. You will choose the RULER tool:



And click on your school location.....(remember the closer you get, the more accurate your distances will be.)

You will now need to use the navigation tools (zoom, pan, up/down) to find the location you are measuring.....once there, you can click again with the rule tool.

If the circle at the end of the ruler is red – you can not move it. If you click on it, it will turn green and you are able to relocate it (if necessary.)
(If it is not red or green – that lets you know the ruler tool is NOT activated.)

When locations are far away – you will need to zoom out a bit. You can also turn the ruler off – navigate where you need to go – and then turn it on again.

It is tricky – but once you have played with it a bit, it will be easier to use.

**PLEASE DO NOT LET THIS FRUSTRATE YOU OR YOUR STUDENTS –
as with any new skill, it might take a bit of playing with at first.**

The ruler tool allows you to choose which measurement option you wish – for this project please either choose MILES or KILOMETERS. Please stay consistent with the measurement through the entire project.

Once you have the distance measured, please add it to the landmark worksheet document. You will need this to submit your final results.

Talk with your students about each landmark, location, why it is a landmark, etc.

Choose, as a class, your 4 additional landmarks you will measure.
Discuss why they were chosen.

After you have completed all your measurements, visit the project page to submit your results. There will be a link available starting on April 13th at the bottom of the information page.

Results will be in an spreadsheet document. You are invited to download this document to use within your classroom.

Please also join our NING community at <http://projectsbyjen.ning.com/> where you can upload pictures, ask questions, and more!!