

Downloading Google Earth

Google earth is **NOT** a web based application. It must be downloaded and installed on each station. It is already installed on most HS computers. To download and install Google Earth go to <http://earth.google.com/intl/en/> . Note if you are installing this on a student station you must be logged in as a teacher/adult.

Ruler and Path Tools

When you click on the ruler tool, and select the path tab, you can now click at each place you'd like to place a marker towards measuring the total distance of your path, using this tool you can measure a hiking trip, kayaking adventure of simply the footprint of your house.

To navigate while in the path tool you must use the compass and navigation tools.

Adding Pushpins and info

At any time you can add place markers (pushpins) . A pushpin will keep your exact view of places including zoom level and inclination.

To add a pushpin click the icon on the toolbar and then click on the map where you would like to place it. Once placed, the place marker panel will pop up. In the description box you can type, in html, a description of the location. This description can include hyperlinks, as well as pictures and video embeds, etc.

To change the push pin icon click on the image in the upper left and select the appropriate icon.

Google Earth interface

The screenshot shows the Google Earth interface with several callout boxes:

- Top Left:** "To quickly move to a new location, type it in the fly to box and hit enter. Famous places are acceptable ie: you don't need the mailing address"
- Top Center:** "Show/Hide the 'Fly to', 'My places' and 'Layers' panes"
- Top Right:** "'Push Pin' –Easily find locations and add to 'my places' by sticking in a pin."
- Far Top Right:** "This slider lets you look at location at various times. Ex:9/11"
- Far Right:** "Ruler – click and click to measure the distance between two pts as the crow flies."
- Center:** "Record a movie tour of various locations that is saved as a .kmz file for Google Earth."
- Right:** "Switch to explore other places such as the Moon, Mars and the night sky."
- Bottom Left:** "Bookmarks and/or added content, created by yourself or downloaded from the internet, appear in the 'my places' pane."
- Bottom Center:** "Layers allow you to add different content to your view, such as earthquakes, historical maps, and 3D buildings. To add or subtract views simply uncheck/check the box in the layers pane. A plus sign next to a layer indicates more specific content that can be shown/hidden. To see the content you have added you may need to zoom in closer."
- Bottom Right:** "The compass will point to true north. The Right and left arrows will rotate the map, the up and down arrows control the angle from the ground at which you look at your selected area."
- Far Bottom Right:** "This tool will change your position on the map. You can also change your location on the map by left-clicking and dragging."
- Far Far Right:** "Zoom in or out of your location using either the plus and minus icons, or with the slider. (You can also use the scroll wheel on your mouse)."

Layers allow you to add different content to your view, such as earthquakes, historical maps, and 3D buildings. To add or subtract views simply uncheck/check the box in the layers pane. A plus sign next to a layer indicates more specific content that can be shown/hidden. To see the content you have added you may need to zoom in closer.

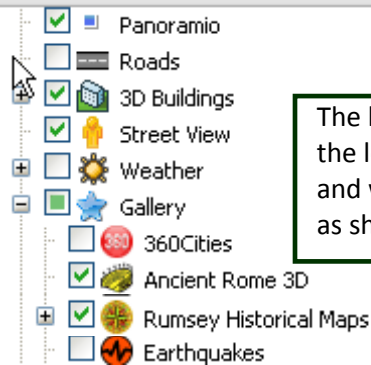
The compass will point to true north. The Right and left arrows will rotate the map, the up and down arrows control the angle from the ground at which you look at your selected area.

This tool will change your position on the map. You can also change your location on the map by left-clicking and dragging.

Zoom in or out of your location using either the plus and minus icons, or with the slider. (You can also use the scroll wheel on your mouse).

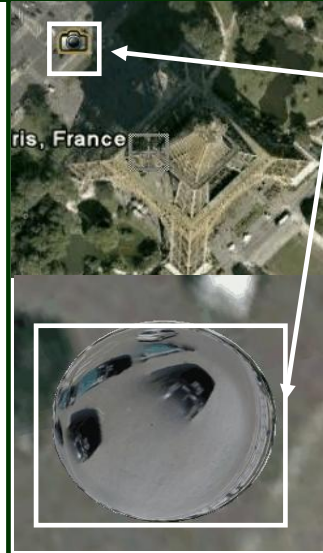
More on Layers

Adding layers allows you to get relevant content. Experiment by turning on and off different layers and clicking their icons in Google Earth.. A Google Search for: specific content + Google Earth will turn up Layers that can be added as well as user-created KML files. Remember a “+” indicates that there are additional sub-choices under categories. It’s often useful to turn off layers that you are not using.



The layer pane image to the left has been edited, and will not appear exactly as shown on your screen.

Street View Layer (make sure it is checked in the layers pane)



From a distance, the street view icons appear as cameras, as you get closer to the surface of the planet, they appear as glassy spheres. Double click on either the sphere or the camera to enter the panoramic street view.

Once inside the photo, you can “look” in any direction by left-clicking and dragging around the photo, or by moving the white navigation box that appears on the photo. Additionally, you can zoom with the scroll wheel. (360cities functions similarly)



Ancient Rome Layer

Using Sketchup (another cool Google App) people have reconstructed structures in ancient Rome that no longer exist. Load the “Ancient Terrain” first to clear the landscape and then load “Ancient Roman Landmarks and Buildings” by double clicking on one of the yellow icons, and selecting the appropriate link. The same yellow icons will open up an information window about each structure;



Rumsey Historical Maps layer

This layer will overlay the current satellite image with a historical map.

Double click the compass icon, a pop-up will appear, double click the map image to overlay the historical map. To remove the overlay unclick it in the “temporary places” section of the place pane.



Wikipedia & Panoramio Layers

Under more select Wikipedia to stud your map with clickable encyclopedia articles about significant places.

Panoramio adds a layer of blue squares that are clickable to see photos of places taken by users across the world.

Navigation Tip

When you are zoomed in very close to the surface of the earth, it is difficult to tell where you are. Turn on “Overview Map” from the “View” pull down menu to see a red rectangle on the inset map which shows current area.



3d Building Layer

The 3d layer is similar to the ancient Rome layer. Most major cities and tourist attractions have been modeled as 3d objects.

To change your perspective from an overhead view to a more helicopter view, hold the shift key and click and hold the left mouse button as you drag down (or use the scroll wheel).