***Science Lab: Air Quality Student Data Sheet***

**Observe Visibility**

What is the date?

What is the time?

What color is the sky? (check one):
____ Dark blue
____ Bright blue
____ Light blue
____ White/milky blue
____ Brown/yellow

How clear is the air? Can you see haze or is the sky clear? (check one):
____ Extremely clear
____ Clear
____ Somewhat hazy
____ Hazy
____ Extremely hazy

What is the weather today? (check one)
____ Sunny
____ Partly cloudy
____ Overcast
____ Raining
____ Snowing
____ Other (describe)

Look straight up. What percentage of the sky is covered in clouds?
____ Less than 10% Clear (clear or nearly all clear)
____ 10–25% Isolated (a few clouds)
____ 25–50% Scattered
____ 50–90% Broken Overcast (mostly cloudy)
____ >90 Overcast (cloudy)

What is the farthest landmark you can see? If you have a camera, take a photo to record the view.

**Calculate Visibility**

According to Google Earth, what is your latitude and longitude?

Describe your observation site. Are you at ground level? Are you in a valley or on a hill? What else affects how far you can see?

How far could you see?

What is the air quality index for ozone?

What is the air quality index for particulates?

What is the air quality color code for today?

How do the ozone and particulates readings compare to visibility observations in your area?

**Satellite vs. Ground**

When was the most recent image taken?

In the most recent satellite image, do you see dust, smoke, or haze over your location?

How does that compare to the air quality code? Why might it be different?