



Air Quality

Goal: to raise understanding of scientific methods, citizen science techniques, and air quality

Testing devices (4)

- Size of a cell phone
- Pumps air through a filter
- Needs one minute in a spot
- Recharges (open the case)
- Turn it on two hours prior to use
- Records data and saves to spreadsheet
 - Needs PC and software

Method:

- Students grades 4-8
- All three Omaha schools
- Sue does 15 minute in-service for kids
- Groups of 3
 - One operates the device
 - One records data on clipboard
 - One holds timer
- Students go to a site
 - Testing – timing each test (timers are in the UFG kit)
 - Record location on paper map
 - Record measurement data
 - Record time of day
 - Rotate sites

Extension: Service Component: test the air during specific times of the day (when cars are idling in front of school for after school pick up, then again midday when there are no/fewer cars there. Make the contrast then talk to parents about having their kids breathing that air so maybe they shouldn't idle. Reward non-idling parents). Test the air near busy streets, then in quieter neighborhoods, make recommendations about jogging, walking, etc.

