



Planes, Rain, and Atmosphere

DFW Airport Earth Day 2021

DFW

Air Quality Kit Instructions



Teachers and students will be able to actively engage in the measurement of air quality. Students will have the opportunity to engage in the collection of measurements using an air quality sensor and interpret scientific data to make Air Quality Index (AQI) categorical determinations. This kit includes a technical sensor and AQI flags. The flag colors correspond to the USEPA Air Quality Index (AQI). The school can raise a flag to signify how clean the air is and potentially use this information to adjust their outdoor or physical activities to reduce exposure to unhealthy air. Teachers can register their campus flag program at: <https://geopub.epa.gov/flagregistration/>

For more resources related to the Air Quality Flag Program, look here: <https://www.airnow.gov/education/>

The EPA developed a toolkit to help citizen scientists collect and interpret air quality data in their communities:

<https://www.monarchwatch.org/waystations/#register>

Interested in a more challenging air quality project? Here are a few STEM activities developed for students by the EPA:

<https://www.epa.gov/air-sensor-toolbox>



As you and your students are working with the STEAM Activity Kits, we encourage you to capture your student's participation, directly or indirectly, by taking photographs and sharing with DFW Airport your school's fun energy and positive vibes.

Email photos to the following address – DFWearthday@dfwairport.com

The Dallas – Fort Worth International Airport Board (“DFW”) reserves the right to use video or still shot photography images for publicity use, which may include posting of photos/video of the Event on DFW Airport internal or external media sources. With this understanding, any photos sent to DFW Airport automatically grants your consent in allowing publication of the photos which may feature your students. If you have any questions concerning STEAM Activity Kit photos used during Earth Day 2021, please email DFWearthday@dfwairport.com.