

1. Our Air and  
Pollution  
(50-100min.)

3. Particle Sources  
(50min. or more)

5. Measuring Particles  
(50min.)

7. Interpret Your Data  
(50min.)

2. Particle Pollution  
(50-100min.)

4. Health Effects of  
Particles  
(50-100min.)

6. Field  
Measurements  
(100min. or more)

8. Be Part of the  
Solution  
(50min. or more)



Kids Making  
Sense® Kit

For more information  
about the program or to refer  
a school for potential participation,  
please contact:

Monika Kim  
Phone: (909) 396-2342  
Email: [mkim@aqmd.gov](mailto:mkim@aqmd.gov)



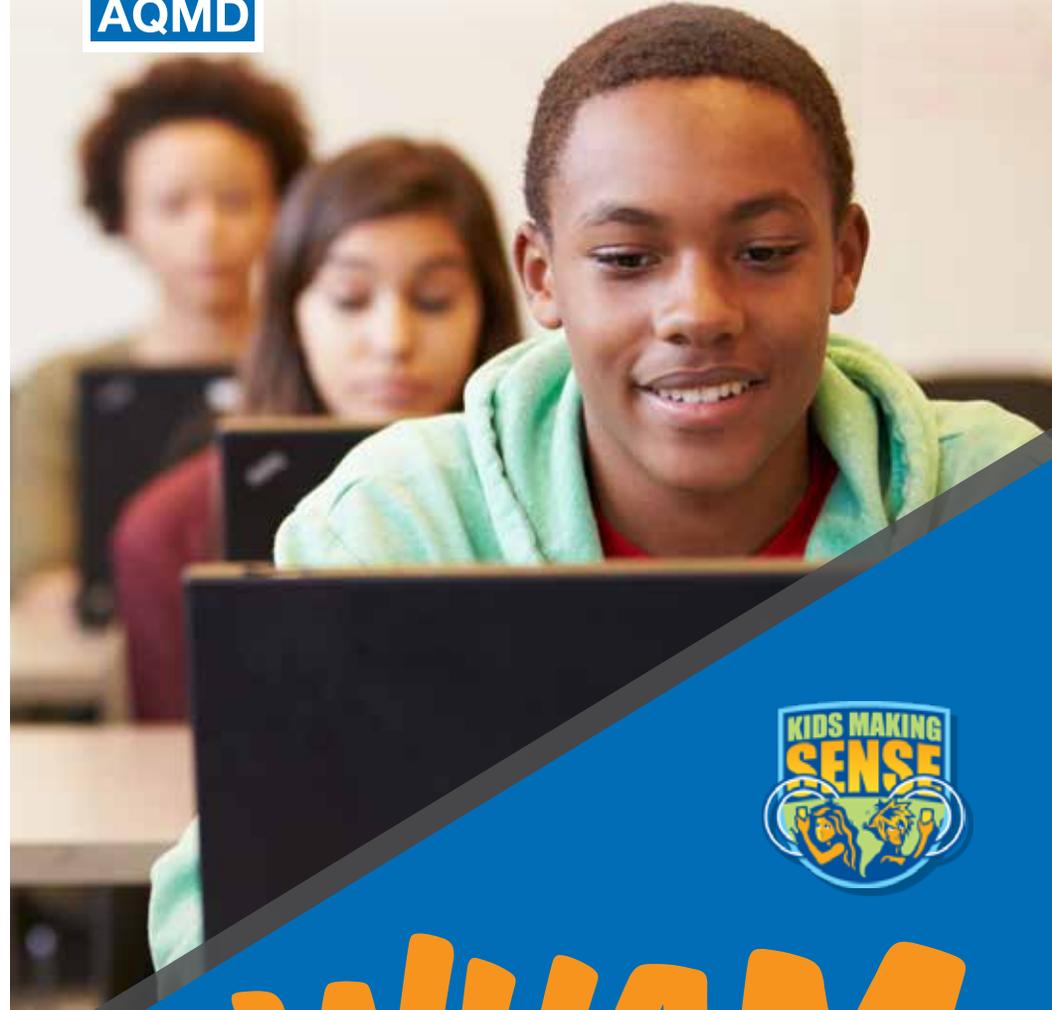
South Coast Air Quality  
Management District  
[www.aqmd.gov](http://www.aqmd.gov)  
1-800-CUT-SMOG

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# South Coast Air Quality Management District

## High School Education Program



# WHAM

## Why Healthy Air Matters

Air Quality Education by South Coast AQMD

## What is South Coast Air Quality Management District's WHAM Program?



**WHAM**  
Why Healthy Air Matters



AirBeam2 Air Monitor, AirCasting App

South Coast AQMD's high school education program, Why Healthy Air Matters (WHAM), is an exciting Science, Technology, Engineering and Math (STEM)-based education program that teaches students about air quality. The program utilizes Sonoma Technology, Inc.'s Kids Making Sense® curriculum, developed by air quality scientists and educators and thoroughly tested by teachers and students around the world.

## Why is the WHAM Program important?

South Coast AQMD's jurisdiction encompasses Orange County and the urban portions of Los Angeles, Riverside and San Bernardino counties, and is home to more than 17 million people—the second most populated urban area in the United States. This region suffers from some of the poorest air quality in the nation and does not meet federal standards for both ozone (smog) and fine particulate matter (PM2.5).

This program will increase awareness of air quality issues within environmental justice communities in South Coast AQMD's jurisdiction. It utilizes a community-focused approach, designed to teach youth about the science of air quality, public policy and technology-based solutions.

## Does the program fit in with state standards?

The Kids Making Sense® curriculum is aligned with the California State Core Science Curriculum for grades 9 through 12. The curriculum unites STEM education and Next Generation Science Standards (NGSS) with hands-on experiential learning and introduces Disciplinary Core Ideas (DCIs) through experiments that reinforce Science and Engineering Practices (SEPs) and Crosscutting Concepts (CCCs).



Curriculum  
Workbook

## What will each participating school receive?

Each participating school will receive a Kids Making Sense® kit, which includes AirBeam2 portable air quality monitors, paired smartphones, a teacher's guide, student workbooks and all supplies and materials needed to successfully complete each experiment in the workbook.

The WHAM program offers features and support to provide teachers with maximum flexibility and learning tools to accommodate their class and student needs. We offer the following options to aid in the successful implementation of the program:

- South Coast AQMD guest speaker;
- South Coast AQMD guest speaker via ZOOM;
- PowerPoint presentations for each unit;
- Pre-recorded video lectures; and,
- Air quality-related videos.

