



American  
Spaces

## American Spaces Programming Resources

Air Quality Awareness Week – April 30 – May 4, 2018

### Programming Packages

#### • ***Air Quality Index (AQI) Toolkit for Teachers***

- Compiled by the U.S. Environmental Protection Agency (EPA)
- Can be found here: [https://airnow.gov/index.cfm?action=resources.aqi\\_toolkit](https://airnow.gov/index.cfm?action=resources.aqi_toolkit)
  - Consider downloading toolkit for **Grades 6-8** (pdf, 87 pages)
    - **English level of toolkit is medium** and appropriate for American Spaces audiences
    - **Many lesson plans included, where each is an off-the-shelf program**
      - Key vocabulary, questions for discussion, visual aids, handouts all included
    - American Spaces coordinators should review the materials needed and technical requirements
    - The timing noted below is “estimated” and programs can be flexible based on the program needs and plans of the American Space
      - **[Health] Symptoms Scenario**: 2-hour program; pages 83-102
      - **Tracking Air Quality**: Up to six activities/programs (30 – 60 minutes each); pages 103-120
      - **Smog Alert** : 20-minute program; pages 121-123
      - More topics and lesson plans included

### Video Resources

#### • **Short Video: *TED Talk – A Smog Vacuum Cleaner and Other Magical City Designs***

- [https://www.ted.com/talks/daan\\_roosegaarde\\_a\\_smog\\_vacuum\\_cleaner\\_and\\_other\\_magical\\_city\\_designs](https://www.ted.com/talks/daan_roosegaarde_a_smog_vacuum_cleaner_and_other_magical_city_designs)
- Speaker is: Daan Roosegaarde, Dutch artist and innovator
- 12 min 16 sec video
- Video can be downloaded
- Video transcript available in 15 languages
- About the talk from Ted Talk website:

**Daan Roosegaarde uses technology and creative thinking to produce imaginative, earth-friendly designs. He presents his latest projects -- from a bike path in Eindhoven, where he reinterpreted "The Starry Night" to get people thinking about green energy, to Beijing, where he developed a smog vacuum cleaner to purify the air in local parks, to a dance floor that generates electricity to power a DJ booth. Check out Roosegaarde's vision for a future where creativity is our true capital.**

### Written Content Resources

- **Share America articles**
  - <https://share.america.gov/theme/theme-global-issues/theme-environment/>

### More Information

- U.S. Environmental Protection Agency (EPA): <https://www.epa.gov/air-research/research-health-and-environmental-effects-air-quality>
- World Health Organization (WHO): <http://www.who.int/airpollution/en/>

- EPA Lesson Plans, Teacher Guides, etc: <https://www.epa.gov/students/lesson-plans-teacher-guides-and-online-environmental-resources-educators>
  - Includes hands-on activity guide for making “Particulate Matter (PM) Air Sensor Kits” and a 27-page “Plain English Guide to the Clean Air Act”