



Pima County Department of Environmental Quality

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www.pima.gov/deq • www.AirInfoNow.org • www.pima.gov/ecokids

Free Presentations on Environmental Issues

Pima County Department of Environmental Quality offers FREE presentations to groups of all ages. Topics include air quality, climate change, pollution prevention, and going green.

Need to make a presentation shorter or longer? Have specific questions you'd like discussed? We can customize presentations to suit your needs. Want to incorporate parts of different presentations? Check out the *Build Your Own Presentation* at the end of this document to pick features you'd like your audience to experience.

Contact Karen.Wilhelmsen@deq.pima.gov or 724-7449 for inquiries or to schedule your free presentation. Availability depends upon presenters' schedules.

GRADES K-2

Awesome Air Story Time

Through the reading of two books, *I Face the Wind* by Vicki Cobb and *Stars Beneath Your Bed--The Surprising Story of Dust* by April Pulley Sayre, and a demonstration planting seeds in soil, students gain a better understanding about the characteristics of air, airborne dust, and the importance of keeping airborne dust (particulates) down. Students will assist with experiments, act out dust producing activities, and see dust being created and controlled.

Time: 60 minutes

Accommodations: table for demonstration

GRADES K-6

Awesome Air & Stomp Rockets

Through a short lecture/discussion, demonstration, and a FUN stomp rocket activity, participants will learn about the air pollutants of concern in the Tucson area, where pollution comes from, how breathing air pollution may affect our health, and what we can do to keep the air and environment clean. Staff may use props such as healthy and simulated unhealthy pig's lungs. Staff will guide participants in making their very own stomp rockets, and with stomp rocket assemblies, use the power of air to launch rockets for the remainder of the presentation.

Time: 60 minutes

Accommodations: table for demonstration, work surface for students, shaded outside area

Little Green Riding Hood

In a storytelling format, the presenter adapts a longtime favorite tale to share information about "green" living. The story delves into home energy use and transportation, two major sources of air pollution and climate change, as well other sources and environmental issues (like recycling) as Little Green Riding Hood leaves her village and scampers through the woods to her grandmother's house. The presenter uses props to enhance delivery, and opens the presentation up for discussion of environmental issues, focusing on actions we can take and products we can use to be more "green."

Time: 30-45 minutes

Accommodations: table for props

GRADES 4-8

Got Dust? Role-play

Through lecture, demonstration, and an interactive role-play activity, participants will gain a greater awareness of air pollution issues, specifically regarding particulate pollution. Participants will learn about air pollutants of concern in Pima County, health effects of air pollution, and possible solutions to reduce air pollution. The audience will discover different perspectives in a real-life situation regarding airborne dust in a residential neighborhood, and attempt to find a solution.

Time: 60 minutes

Accommodations: table for props

GRADES 4-12

Air Jeopardy

Through a fun PowerPoint “Air Jeopardy” game, students will become more aware of air issues including air pollutants of concern in Pima County, health effects of breathing polluted air, air quality and transportation, and solutions to keep the air healthy. Staff may use props to enhance discussion of topics including healthy and simulated unhealthy pig’s lungs to demonstrate what breathing dirty air can do to our health, energy-saving devices to promote energy conservation, and items made from recycled materials and/or reusable items to emphasize waste reduction.

Time: 60 minutes

Accommodations: dark room, two tables (one for projector and laptop, one for props)

Career Day – Environmental Careers, Focus PDEQ

Through a PowerPoint presentation, participants learn about the many jobs available in the environmental field, the reasons why someone might choose an eco-career, the level of education necessary to get into the field, the different arenas where they might seek work, and focus in on what a career with PDEQ Communications Program is like.

Time: 20-60 minutes

Accommodations: dark room, two tables (one for projector and laptop, one for props)

Climate Change Jeopardy

Through a fun PowerPoint “Climate Change Jeopardy” game, attendees will become more aware of what causes climate change, how climate change is affecting the environment and earth’s inhabitants, and tips on what we may do to reduce global warming and climate change. Staff may use props to enhance discussion of topics including energy-saving devices, and use a worksheet where participants can think more about where and how they personally use energy in their homes.

Time: 60 minutes

Accommodations: dark room, two tables (one for projector and laptop, one for props)

Eco Jeopardy

Through a fun PowerPoint “Eco Jeopardy” game, students will learn about a variety of environmental issues including air quality, solid waste/recycling, climate change, and general eco info to promote a healthy environment. Staff may use props to enhance discussion of topics including healthy and simulated unhealthy pig’s lungs to demonstrate what breathing dirty air can do to our health, energy-saving devices to promote energy conservation, and items made from recycled materials and/or reusable items to emphasize waste reduction.

Time: 60 minutes

Accommodations: dark room, two tables (one for projector and laptop, one for props)

GRADES 9-12

When You Can't Breathe, Nothing Else Matters

This PowerPoint presentation introduces air quality issues in Pima County. We discuss air pollutants of concern, their sources, health effects, solutions, and also touch upon global climate change. This is an interactive presentation incorporating small group brainstorming, classroom discussion, and props such as healthy and simulated unhealthy pig's lungs. Staff may use an activity sheet as a springboard to share ideas about practical green actions that may be taken on a daily basis.

Time: 60 minutes

Accommodations: dark room, two tables (one for projector and laptop, one for props)

ADULTS

Air Jeopardy

Through a fun PowerPoint "Air Jeopardy" game, attendees will become more aware of air issues including air pollutants of concern in Pima County, health effects of breathing polluted air, air quality and transportation, and solutions to keep the air healthy. Staff may use props to enhance discussion of topics including healthy and simulated unhealthy pig's lungs to demonstrate what breathing dirty air can do to our health, energy-saving devices to promote energy conservation, and items made from recycled materials and/or reusable items to emphasize waste reduction.

Time: 60 minutes

Accommodations: dark room, two tables (one for projector and laptop, one for props)

Airborne Dust Control

Learn about air pollutants of concern in Pima County, particularly particulate matter (PM), also known as airborne dust. Understand more about targeted sources of PM, health effects of PM, what regulations are in place to reduce the pollutant, and what we all need do to keep levels down. This presentation is customized to meet the needs of construction and landscape companies, industry associations, businesses, agencies, and community groups.

Time: 45-60 minutes

Accommodations: dark room, two tables (one for projector and laptop, one for resources)

Awesome Air

This PowerPoint presentation introduces air quality issues specifically in Pima County. We discuss air pollutants of concern, where the pollutants come from, their health effects, solutions, and also touches upon global climate change. During discussion, staff may show healthy and simulated unhealthy lungs to demonstrate what breathing dirty air can do to our lungs. Staff may use a worksheet *How Green Can You Go?*, as a springboard for the audience to discuss green actions related to air quality and the environment in general.

Time: 45-60 minutes

Accommodations: dark room, two tables (one for projector and laptop, one for resources)

Climate Change Jeopardy

Through a fun PowerPoint "Climate Change Jeopardy" game, attendees will become more aware of what causes climate change, how climate change is affecting the environment and earth's inhabitants, and tips of what we may do to reduce global warming and climate change. Staff may use props to enhance discussion of topics including energy-saving devices, and use a worksheet where participants can think more about where and how they personally use energy in their homes.

Time: 60 minutes

Accommodations: dark room, two tables (one for projector and laptop, one for props)

Day to Day Choices Make a Difference in the Environment

All the choices people may make to go green can seem endless and overwhelming at times. This PowerPoint presentation takes the audience through an ordinary day in the life of Practically Perfect Pat. Practically Perfect Pat makes green choices every day, some very simple such as turning lights off when leaving a room, some more complicated and expensive like having a solar-powered home. Although many of these choices are quite common, the presenter attempts to connect how individually and collectively, our choices make a difference in the environment.

Time: 45-60 minutes

Accommodations: dark room, two tables (one for projector and laptop, one for resources)

EcoJeopardy

Through a fun PowerPoint “Eco Jeopardy” game, attendees will learn about a variety of environmental issues including air quality, solid waste/recycling, climate change, and general eco info to promote a healthy environment. Staff may use props to enhance discussion of topics including healthy and simulated unhealthy pig’s lungs to demonstrate what breathing dirty air can do to our health, energy-saving devices to promote energy conservation, and items made from recycled materials and/or reusable items to emphasize waste reduction.

Time: 60 minutes

Accommodations: dark room, two tables (one for projector and laptop, one for props)

BUILD YOUR OWN PRESENTATION

Pick and choose features from different presentations to build an event most suitable to your audience. Contact Karen.Wilhelmsen@pima.gov or 724-7449 to discuss logistics.

Air Pictionary

Participants take turns drawing pictures while the rest of the audience guesses what they’re drawing – sources, effects, or solutions to air pollution.

Healthy and Unhealthy Lung Demonstration

Through discussion and the use of healthy pig’s lungs and simulated unhealthy pig’s lungs, the audience discovers more about the health effects of breathing air pollution.

How Green Can You Go?

Through discussion and guided by a worksheet, participants will examine how they use energy in their homes and make a plan to improve energy consumption where warranted.

Little Green Riding Hood

Enjoy a favorite old-time tale in a storytelling format with a green living twist.

The Lorax

Love of Reading Week? Participants enjoy the wondrous world of Truffula Trees and Brown Bar-baloots invented by Dr. Seuss to highlight the effects of our use of Earth’s resources.

Stomp Rockets

Have fun with the power of air. Make rockets out of paper, bottle caps, and tape. Go outside and shoot them off using PDEQ’s stomp rocket assemblies.

Storytime – I Face the Wind

Participants listen to the book *I Face the Wind* and participate in experiments to learn about basic properties of air.

Storytime – Stars Beneath Your Bed

Participants listen to the book *Stars Beneath Your Bed, the Surprising Story of Dust*, act out dust producing activities, and learn why it is important to keep dust from becoming airborne.