

Air Pollution

Environmental Education, Middle School Program

Air Pollution

- Air Pollution can impact your
 - Health
 - Environment
 - Nation's Economy





Clean Air Act

- The original Clean Air Act was established in 1963. It established funding for the study and the cleanup of air pollution.
- In 1970 Congress created the Environmental Protection
 Agency (EPA) and gave it the primary role in carrying out the
 law.
- In 1990, Congress revised and expanded the Clean Air Act,
 - Provided the EPA even broader authority to implement and enforce regulations reducing air pollutant emissions.
 - Placed an increased emphasis on more cost-effective approaches to reduce air pollution.



Clean Air Act

- By reducing air pollution, the Clean Air Act has led to significant improvements in human health and the environment in the U.S.
- Since 1970, the six commonly found air pollutants have decreased by more than 50 percent.



Criteria Air Pollutants

- Ozone
- Particle Pollution
- Carbon Monoxide
- Lead
- Sulfur Dioxides
- Nitrous Dioxides









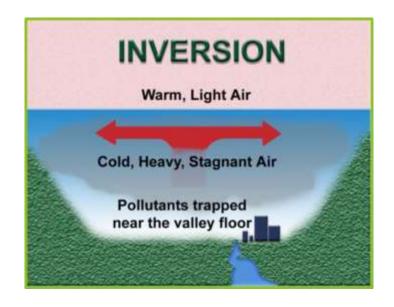
How You Can Help Reduce Air Pollution?

- Conserve Energy
- Drive Wisely / Ride Wisely



Thermal Inversions

Thermal inversion occurs when a layer of warm air settles over a layer of cooler air that lies near the ground. The warm air holds down the cool air and prevents pollutants from rising and scattering.





Thermal Inversion – Salt Lake Valley



A temperature inversion traps and fills the Salt Lake valley with thick smog outside Draper, Utah, on Jan. 31, 2017. Photographer: George Frey/Getty Images



Donora, Pennsylvania Event





Introduction to Demonstration

- Inversion in a Cup
- Objective: To observe how temperature inversions are formed and discuss how inversions influence air pollution levels.







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