



Grade 4 Sample Lesson Plan: Unit 1 – Air Pollution

SOLs

- **4.1.R** Describe the effects of air pollution on health.
- **4.2.S** Explain the health consequences associated with air pollution.
- **4.3.O** Develop strategies to reduce air pollution

Objectives/Goals

- Students will research air pollution and its impact on health and describe strategies to reduce air pollution.

Materials

- Videos
- Internet access
- Small Posters
- Magazine cutouts of images related to air pollution

Procedure

Step 1

- Show a video on air pollution (e.g., <http://eschooltoday.com/pollution/air-pollution/what-is-air-pollution.html>) so that students understand natural and human sources of pollution) and/or have students visit ToxTown <https://www.toxtown.nlm.nih.gov/>, an interactive website where they can visualize various pollution scenarios.

Step 2

- Ask students to select one type of air pollution and visit and write one paragraph about the health consequences of that type of pollution (prompt students with resource websites)

Step 3

- In small groups have students create posters to illustrate strategies to reduce air pollution (e.g., carpooling, no smoking).

Step 4

- Display the posters around the classroom.

Assessment Idea

- Evaluate student research projects and collaborative work developing posters.

References

- EPA Games and Quizzes <https://www.epa.gov/students/games-quizzes-and-more>
- EPA Learning and Teaching About the Environment- Student Resources <https://www.epa.gov/students>
- Kids Environment Kids Health <http://kids.niehs.nih.gov/>
- Kids Health Ozone Asthma and Air Quality <http://kidshealth.org/en/parents/ozone-asthma.html>
- National Safety Council Teacher's Guide Indoor Air Quality http://www.ct.gov/dph/lib/dph/environmental_health/eoha/pdf/teachgde.pdf
- PBS Kids EkoWorld – Interactive Website on the Environment <http://pbskids.org/eeeworld/>
- ToxTown <https://www.toxtown.nlm.nih.gov/>
- Scholastic - Pollution Solution <https://beta.scholastic.com/teachers/lesson-plans/teaching-content/pollution-solutions/>
- Air Pollution http://www.ducksters.com/science/environment/air_pollution.php Video <http://eschooltoday.com/pollution/air-pollution/what-is-air-pollution.html>