



SAMPLE LESSON PLANS

Grade 4 – Healthy Environment

Unit 1

SOLs:

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

Title: 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:

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

Assessment Ideas:

- Evaluate student research projects and collaborative work developing posters.
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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 EekoWorld – 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>