

# NATURAL RESOURCES

## Lesson Plan

### Air & Atmosphere

Lesson Plan for *Air*

Grade 4

#### Objective

To help students practice vocabulary related to air pollution and the atmosphere.

#### Things Needed

- *Air* book
- Air & Atmosphere worksheet (attached)

#### Before the Activity

Print a copy of the Air & Atmosphere worksheet for each student. Then read *Air* out loud as a class.

#### Activity

Pass out the Air & Atmosphere worksheets. Students should use the word bank to fill the blank in each sentence. They can look through the *Air* book if they get stuck. Some of the answers will be in the book's glossary on page 31. Other answers will be described in the main text. Remind students to check the book's photo captions and sidebars as well.

#### Evaluation

Use the attached answer key to give students 1 point for each correct answer, for up to 15 points total.

#### Standards

This lesson plan may be used to address the Common Core State Standards' language standards, grade 4 (L 4.4).



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# Air & Atmosphere

air pressure  
atmosphere  
carbon dioxide  
exhaust  
exosphere

gravity  
greenhouse gases  
invisible  
nitrogen  
oxygen

ozone  
pollution  
radiation  
smog  
troposphere

1. Air is a mix of \_\_\_\_\_ gases.
2. Air is mostly made up of a gas called \_\_\_\_\_.
3. Plants need \_\_\_\_\_ to grow.
4. Animals need \_\_\_\_\_ to breathe.
5. The layers of air that surround Earth are called the \_\_\_\_\_.
6. The top layer of the atmosphere is called the \_\_\_\_\_.
7. The lowest layer of the atmosphere is called the \_\_\_\_\_.
8. \_\_\_\_\_ is a gas that stops radiation from reaching Earth.
9. \_\_\_\_\_ is energy that comes from the sun's rays.
10. \_\_\_\_\_ is smoky waste from cars, power plants, or other engines.
11. \_\_\_\_\_ is a force that pulls the air toward Earth.
12. The force of air pushing down on Earth's surface is called \_\_\_\_\_.
13. \_\_\_\_\_ is harmful particles or gases that enter the air.
14. \_\_\_\_\_ is a thick layer of air pollution near the ground.
15. \_\_\_\_\_ are chemicals that can cause climate change.



# Air & Atmosphere Answer Key

air pressure  
atmosphere  
carbon dioxide  
exhaust  
exosphere

gravity  
greenhouse gases  
invisible  
nitrogen  
oxygen

ozone  
pollution  
radiation  
smog  
troposphere

1. Air is a mix of **invisible** gases.
2. Air is mostly made up of a gas called **nitrogen**.
3. Plants need **carbon dioxide** to grow.
4. Animals need **oxygen** to breathe.
5. The layers of air that surround Earth are called the **atmosphere**.
6. The top layer of the atmosphere is called the **exosphere**.
7. The lowest layer of the atmosphere is called the **troposphere**.
8. **Ozone** is a gas that stops radiation from reaching Earth.
9. **Radiation** is energy that comes from the sun's rays.
10. **Exhaust** is smoky waste from cars, power plants, or other engines.
11. **Gravity** is a force that pulls the air toward Earth.
12. The force of air pushing down on Earth's surface is called **air pressure**.
13. **Pollution** is harmful particles or gases that enter the air.
14. **Smog** is a thick layer of air pollution near the ground.
15. **Greenhouse gases** are chemicals that can cause climate change.

