

Unit 11 Objectives

Competency Goal 5:

The learner will build an understanding of the dynamics and composition of the atmosphere and its local and global processes influencing climate and air quality.

Unit 11 Objectives:

- I can name and describe the layers of the atmosphere.
- I can explain how the sun's radiation reaches earth and is distributed.
- I can explain the Greenhouse Effect.
- I can explain what ozone is and where it is found.
- I can explain cloud formation.
- I can name and describe the basic types of clouds.
- I can name and explain the 4 types of precipitation.
- I can describe an air mass and the fronts associated with it.
- I can explain humidity and dew point.
- I can explain what climate is and its effects on the weather.
- I can explain local winds and global wind belts.
- I can explain how storms develop.
- I can analyze weather maps.
- I can name and describe instruments used to help determine the weather.

Unit 11 Essential Questions

1. Name the layers of the atmosphere starting at the ground level.
2. How much of the sun's radiation reaches the ground?
3. Explain the Greenhouse Effect.
4. What is ozone?
5. How are clouds formed?
6. Describe cirrus clouds.
7. Describe stratus clouds.
8. Describe cumulus clouds.
9. Name and describe the 4 types of precipitation.
10. Name and describe the 4 types of air masses.
11. Explain a warm front and draw its symbol.
12. Explain a cold front and draw its symbol.
13. What is humidity and what instrument is used to measure it?
14. What is relative humidity?
15. What is dew point?
16. What is climate?
17. What are local winds?
18. Name the 3 global wind belts and tell their locations.
19. What is a hurricane and what scale is used to measure it?
20. What is a tornado and what scale is used to measure it?
21. What is a weather vane?
22. What is a barometer?