

Meteorology Unit Review Sheet Answer Key

VOCABULARY: Coriolis Effect, Jet Stream, Global Winds, Local Winds, Air Masses, Weather, Climate, Contrail, Alto, Cirrus, Cumulus, Nimbus, Stratus, Tornado, Hurricane, Barometer, Psychrometer, Aerosols

1. List 2 of the deadly gases that were present in our Ancient Atmosphere:
(List name and chemical formula) (Example that is not an answer!...Water = H₂O) **CARBON DIOXIDE CO₂, METHANE CH₄, AMMONIA NH₃, AND SULFUR S**
2. **SUNLIGHT** started chemical reactions between compound molecules in the early atmosphere, breaking them apart to form single atoms.
3. What is the chemical formula for ozone? **O₃**
4. Ozone kept temperatures cooler helping to form **RAIN**.
5. Blue-green **ALGAE** formed which "ate" the CO₂ and produced lots of **BREATHABLE** oxygen.
6. Give the percentages of each in our present atmosphere:
Nitrogen **78%**
Oxygen **21%**
Carbon Dioxide **<1%**
7. Name 2 trace gases found in our present atmosphere:
CO₂, WATER VAPOR, ARGON, OZONE, HYDROGEN
8. Which layer of the atmosphere will you find the weather?
TROPOSPHERE
9. Which layer of the atmosphere is the hottest? **THERMOSPHERE**
10. What 2 things in our atmosphere absorb UV rays from the Sun?
IONS AND OZONE
11. Where is the lowest pressure in our atmosphere? **TOP/EXOSPHERE**
12. The turning of air masses from their original paths because of Earth's rotation is called the **CORIOLIS EFFECT**.
13. How do you name winds? **BY THE DIRECTION THAT THEY ARE COMING FROM**
14. What does mT stand for? **maritime Tropical cP? continental Polar**
15. The Earth rotates to the **EAST**.
16. Winds are deflected to the **WEST** in the Northern Hemisphere.
17. Air molecules move faster when they are **HEATED**.

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