

## Grade 8 Science First Marking Period Unit Test Review

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

Students placed textbooks on a capped syringe filled with 30 cc of air to demonstrate Boyle's Law. Use what happened to describe Boyle's Law.

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What gas accounts for 78% of the volume of dry air? \_\_\_\_\_

Kinetic energy is the energy of motion. What would happen to the kinetic energy of air molecules as the air was heated?

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What is wind?

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### **Define**

conduction

convection

radiation

evaporation

condensation

precipitation

In what layer of the atmosphere is the ozone layer found? \_\_\_\_\_

What is a high altitude river of air caused when two air masses of differing temperatures meet?

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In what layer of the atmosphere does weather occur? \_\_\_\_\_

What would the difference between the wet bulb temperature and the dry bulb temperature be at the dewpoint?

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Describe conditions if a maritime polar air mass was in place over Seattle, Washington.

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If a continental polar air mass from Canada collides with a maritime tropical air mass from the Gulf of Mexico over Kansas during April, what event is likely?

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A cold front is moving east toward Wyckoff, NJ, after several days of hot humid weather . What will likely happen ahead of the cold front?

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A tropical wave in the Atlantic Ocean appears to be organizing over 85°F water and in low wind shear. What will likely happen next?

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A large storm organized around a low-pressure center in the eastern tropical Atlantic Ocean will rotate counterclockwise and follow a curved path toward North America. What does this demonstrate?

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What does a rapidly falling barometric pressure indicate?

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If the air temperature is 0°C and the wind speed 20 km/hr, the air temperature will feel \_\_\_\_\_.

During the winter, a nor'easter along the coast of New England frequently results in heavy snow fall. What air mass would cause this?

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