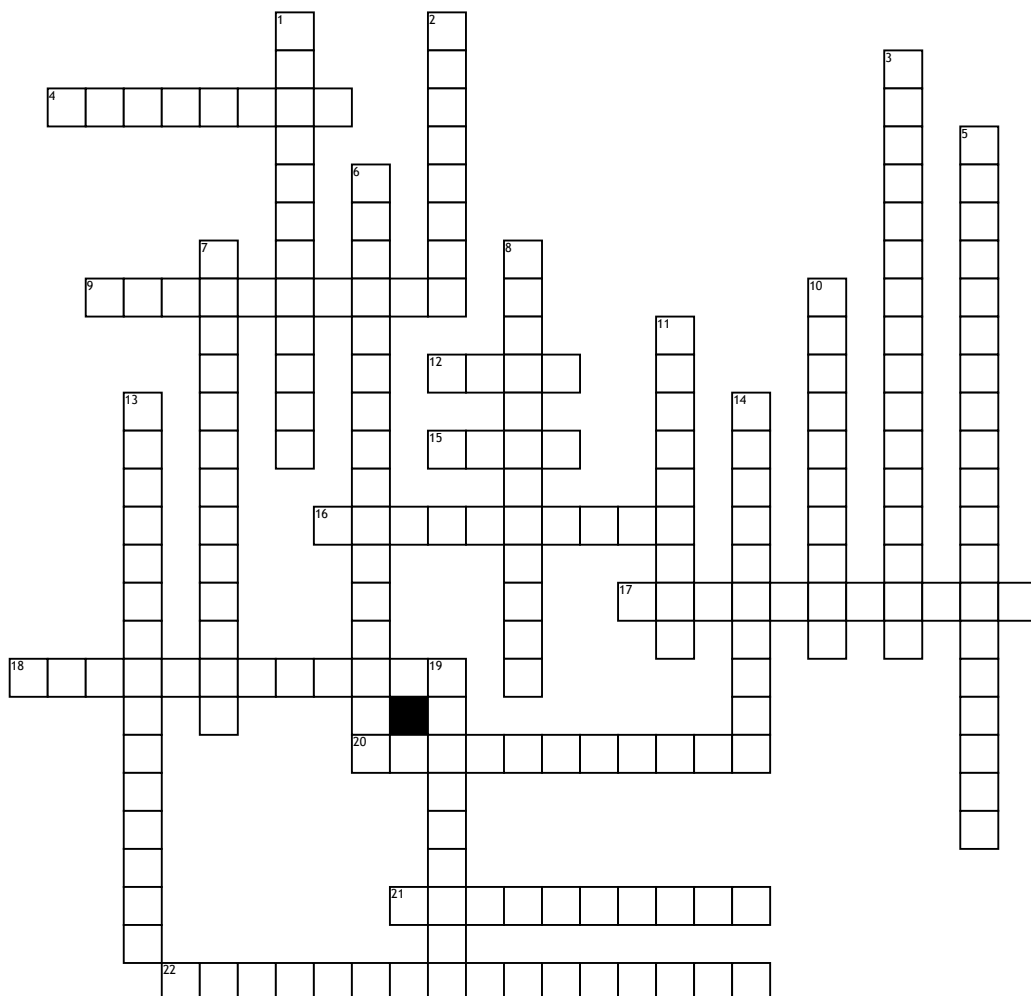


Name: _____

Date: _____

Physical Science First Qt. Exam Vocab



Across

4. The moisture content of the air
 9. The lower layer of earth's atmosphere, which exists from ground level to roughly 80 km (50 miles) above sea level
 12. Energy that is transferred as a consequence of temperature differences
 15. The smallest chemical unit of matter
 16. The region of the atmosphere that spans altitudes of roughly 48 km to 80 km (50 miles)
 17. A measure of the energy of random motion in a substance's molecules
 18. The region of the atmosphere between altitudes of roughly 80 km and 460 km
 20. The region of the atmosphere that extends from ground level to roughly 11 km (7 miles) above sea level

21. Narrow bands of high-speed winds that circle the earth, blowing from west to east
 22. The ratio of the mass of water vapor in the air at a given temperature to the maximum mass of water vapor the air could hold at that temperature, expressed as a percentage

Down

1. The upper layer of earth's atmosphere, which exists higher than roughly 80 km (50 miles) above sea level
 2. Two or more atoms linked together to make a substance with unique properties
 3. The mass of water vapor contained in a certain volume of air
 5. The pressure exerted by the atmosphere on all objects within it

6. The process by which certain gases (principally water vapor, carbon dioxide, and methane) trap heat that radiates from earth
 7. The quantity of a substance within a certain volume
 8. The region of the atmosphere that spans altitudes of roughly 11 km to 48 km (30 miles)
 10. The region of the atmosphere between the altitudes of roughly 65 km and 330 km, where the gases are ionized
 11. An instrument used to measure atmospheric pressure
 13. The number of molecules (or atoms) of a substance in a mixture for every 1 million molecules (or atoms) in that mixture
 14. The mass of air surrounding a planet
 19. The region of the atmosphere above an altitude of roughly 460 km

Word Bank

| | | | | |
|---------------|-------------------|----------------------|-------------------|-------------------|
| Temperature | Thermosphere | Stratosphere | Ionosphere | Atmosphere |
| Mesosphere | Barometer | Exosphere | Parts per million | Absolute humidity |
| Concentration | Heat | Atmospheric pressure | Relative humidity | Heterosphere |
| Troposphere | Greenhouse effect | Atom | Molecule | Jet streams |
| Humidity | Homosphere | | | |