13.1 Review

True-False

Classify each of these statements as always true; AT, sometimes true; ST, or never true NT.

_____ 1. Atmospheric pressure is 760 mm Hg.

_____ 2. The SI unit of pressure is the pascal.

_____ 3. At any given "temperature", the particles of all substances have the same average kinetic energy.

_____ 4. The Kelvin temperature of a substance is directly proportional to the total kinetic energy of the particles in the substance.

_____ 5. Atmospheric pressure increases as you climb a mountain because the density of Earth's atmosphere decreases with altitude.

_____ 6. When particles of a substance are heated, some of the energy is absorbed by the particle and stored in the form of potential energy.

Matching

Match each description in Column B to the correct term in Column A.

_____ 7. Barometer	a. An instrument to measure atmospheric pressure
_____ 8. Kinetic energy	b. A space where no particles of matter exist
_____ 9. Gas pressure	c. The energy an object has because of its motion
_____ 10. Atmospheric pressure	d. Results from the force exerted by a gas per unit surface area of an object
_____ 11. Vacuum	e. Results from the collisions of atoms and molecules in air with objects

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