

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.

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| _____ 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 |