

Quiz continued

- _____ 6. The observation that the mass of carbon dioxide formed from the reaction of carbon and oxygen equals the combined masses of the carbon and oxygen that reacted supports the law of
- conservation of mass.
 - mass action.
 - multiple proportions.
 - definite composition.
- _____ 7. An atomic theory based on scientific observations started about
- 400 BCE.
 - 1800.
 - 1900.
 - 1930.
- _____ 8. Dalton's atomic theory helped explain the law of conservation of mass because it stated that atoms
- could not combine.
 - could not be created or destroyed.
 - all had the same mass.
 - were invisible.
- _____ 9. Dalton's atomic theory does NOT support which of the following observations?
- Matter is neither created nor destroyed in chemical and physical changes.
 - Atoms of most elements are made up of protons, neutrons, and electrons.
 - NO and NO₂ are compounds of nitrogen and oxygen.
 - Hydrogen atoms differ from oxygen atoms.
- _____ 10. Dalton failed to recognize that substances can exist in the form
- AB.
 - A₂B.
 - A₂.
 - AB₂.