

## Atomic Theory Quiz

(see also: [Atomic Theory Quiz](#), Answer Key)

- Are atoms and elements the same thing?
  - Yes
  - No
- Most things on Earth are made of
  - only one element
  - many atoms combined together
  - neither
- What are atoms made of?
  - Lego shaped boxes
  - subatomic particles
  - smaller atoms
  - scientists don't know yet
- Which of the following parts are located inside atoms? (select all that apply)
  - nucleus
  - $p^+$
  - $e^-$
  - neutrons
- The nucleus is made of
  - $p^+$
  - $e^-$
  - $e^-$ ,  $p^+$  and neutrons
  - neutrons
  - $e^-$  and neutrons
  - $p^+$  and neutrons
- The nucleus is kept together by
  - the Weak Force

- b) the Strong Force
  - c) Electromagnetism
  - d) Static Electricity
7. The "Solar System Model" for atoms is used to simplify what concept?
- a) the nucleus
  - b) the  $p^+$  gluing to neutrons
  - c) the  $e^-$  orbits
8. Which of the following particles have mass? (select all that apply)
- a)  $p^+$
  - b) neutrons
  - c)  $e^-$
  - d)  $e^-$  orbits
9. Which of the following particles are mostly energy? (select all that apply)
- a)  $p^+$
  - b) neutrons
  - c)  $e^-$
  - d)  $e^-$  orbits
  - e) neither
10. Another name for the Strong Force is
- a) Static Charge
  - b) Electromagnetism
  - c) Strong Interaction
  - d) Electrostatic Repulsion
11. Which combinations of particles are known to repel? (select all that apply)
- a)  $p^+$  & neutrons
  - b)  $p^+$  &  $p^+$
  - c)  $e^-$  &  $e^-$

- d)  $e^-$  &  $p^+$
  - e)  $e^-$  & neutrons
12. Which combinations of particles are known to attract? (select all that apply)
- a)  $p^+$  & neutrons
  - b)  $p^+$  &  $p^+$
  - c)  $e^-$  &  $e^-$
  - d)  $e^-$  &  $p^+$
  - e)  $e^-$  & neutrons
13. Particles repel due to
- a) the Strong Force
  - b) Electromagnetism
  - c) the Weak Force
14. Which particle is neutral?
- a)  $p^+$
  - b) neutron
  - c)  $e^-$
  - d)  $e^-$  orbits
  - e) neither, all particles are charged
15. Which are examples of variations of the same atom? (select all that apply)
- a) Atomic Forces
  - b) Electrons
  - c) Isotopes
  - d) Ions
  - e) Atomic Bonds
  - f) Protons
  - g) Water molecules
16. We can tell atoms apart by the number of
- a)  $p^+$
  - b) neutrons

- c)  $e^-$
- d) orbits
- e) bonds

17. A mole is

- a) an animal used by Chemists in experiments
- b) the birthmark of a famous Chemist
- c) a counter similar to: pair, dozen, baker's dozen
- d) any chemical found underground

18. Use pen and paper to calculate how many moles are contained in  $150.55 \times 10^{25}$  atoms?

(Reminder: 1 mole is equivalent to  $6.022 \times 10^{23}$  pieces.)

- a) 25 moles
- b) 350 moles
- c) 2,500 moles
- d) 10,678 moles

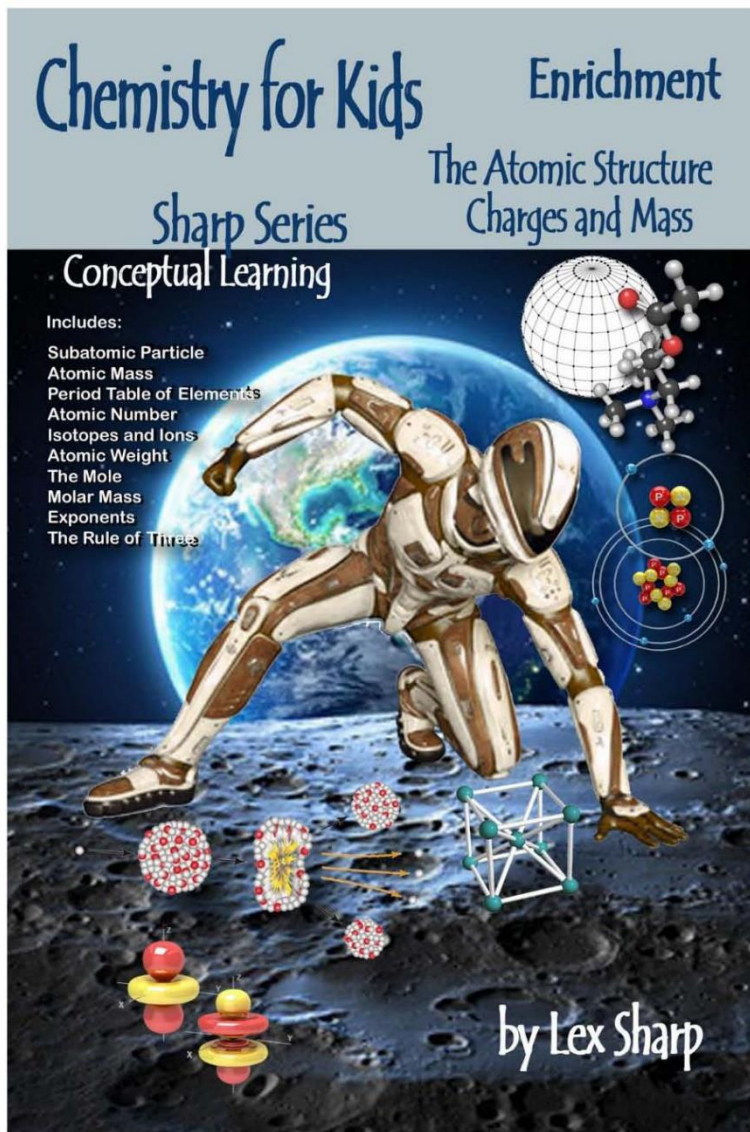
19. Should photons be counted in moles?

- a) Yes
- b) No

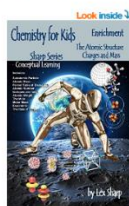
20. What is the total count in 21 moles of photons?

- a)  $6.022 \times 10^{23}$  photons
- b)  $126.5 \times 10^{27}$  photons
- c)  $0.2868 \times 10^{23}$  photons
- d)  $1.265 \times 10^{25}$  photons

To get all the answers to this quiz grab a digital or paper copy at:  
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