

REVIEW QUESTIONS

- How many electrons are in the first electron shell?
 - 0
 - 2
 - 4
 - 8
- What is the formula to determine the number of electrons per shell?
 - $2n^2$
 - $2 \cdot n =$
 - $4n^2$
 - $4 \cdot n =$
- A molecule is composed of:
 - two atoms.
 - an atom and a compound.
 - a proton and a neutron.
 - a proton and an electron.
- Which of the following represents a compound?
 - elemental gold
 - silver
 - common table salt
 - radioactivity
- When two atoms combine they are called:
 - an element.
 - a compound.
 - a nucleon.
 - a bivalve.
- An isotope is formed when the number of _____ changes.
 - electrons
 - elements
 - neutrons
 - protons
- The term *radioactivity* describes a(n) _____, which is in a(n) _____ state.
 - neutron, stable
 - atom, stable
 - electron, excited
 - atom, excited
- Radioactive decay occurs when the number of _____ in the atom changes.
 - electrons
 - neutrons
 - protons
 - the energy
- The atomic number of an element represents:
 - the number of electrons in orbit around it.
 - the atomic mass of the molecule.
 - the number of isotopes available.
 - its position on the table of the elements.
- Upon examining the properties of the elements in the table, early scientists discovered that:
 - the heavier elements were more effective in blocking radiation.
 - the heavier elements were less effective in blocking the elements.
 - the lighter elements were all gases.
 - the lighter elements were mostly manmade.