



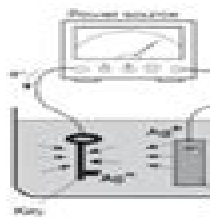


ENHANCING TEST ITEMS – CHEMISTRY (for Physical Sciences majors)

- Which of the following statements best describes the atomic radius of potassium atom and the atomic radius of a calcium atom?
 - The radius of the potassium atom is smaller because of its smaller nuclear charge.
 - The radius of the potassium atom is smaller because of its larger nuclear size.
 - The radius of the potassium atom is larger because its nuclear charge is smaller.
 - The radius of the potassium atom is larger because its nuclear charge is also larger.
 - Which type of chemical reaction occurs when an iron nail rusts?
 - condensation
 - neutralization
 - oxidation-reduction
 - ionization-dissociation
 - Which electron dot symbol represents the atom in period-4 with the highest first ionization energy?
 - 
 - 
 - 
 - 
 - Which phase change is exothermic?
 - $\text{H}_2\text{O}_{(l)} \rightarrow \text{H}_2\text{O}_{(g)}$
 - $\text{H}_2\text{O}_{(g)} \rightarrow \text{H}_2\text{O}_{(l)}$
 - $\text{H}_2\text{O}_{(l)} \rightarrow \text{H}_2\text{O}_{(s)}$
 - $\text{H}_2\text{O}_{(s)} \rightarrow \text{H}_2\text{O}_{(l)}$
 - Given the diagram, which statement BEST describes the key?
 - It is negative and acts as the cathode.
 - It is positive and acts as the cathode.
 - It is negative and acts as the anode.
 - It is positive and act as the anode
- 
- Which technique is safest for diluting a concentrated acid with water?
 - Add the acid to the water quickly.
 - Add the water to the acid quickly.
 - Add the acid to the water slowly while stirring constantly.
 - Add the water to the acid slowly while stirring constantly.
 - Which elements combine to form an ionic bond?
 - sodium and potassium
 - sodium and oxygen
 - carbon and oxygen
 - carbon and sulfur
 - As the elements in group 16 are considered in order from top to bottom, the atomic radius of each successive element increases. This increase is primarily due to an increase in
 - electronegativity
 - ionization energy
 - the number of protons occupying the nucleus
 - the number of occupied principal energy levels
 - An air pollution situation in which reactions occur on the surfaces of solid particles and produce acidic irritation of lung tissues is called ____.

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Lei Shi



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