

1	<p>Which of the following household items is basic?</p> <p>A. baking soda B. grapes C. bananas D. water</p>						
2	<p>How many protons does an atom of silver contain?</p> <p>A. 47 B. 108 C. 61 D. 60</p>						
3	<p>Which of the following compounds are organic?</p> <table border="1" data-bbox="285 653 708 806"> <tbody> <tr> <td data-bbox="285 653 402 705">I</td> <td data-bbox="402 653 708 705">Na_2CO_3</td> </tr> <tr> <td data-bbox="285 705 402 758">II</td> <td data-bbox="402 705 708 758">$\text{CH}_3\text{CH}_2\text{CH}_3$</td> </tr> <tr> <td data-bbox="285 758 402 806">III</td> <td data-bbox="402 758 708 806">CH_3OH</td> </tr> </tbody> </table> <p>A. I and II only B. II and III only C. I, II, and III D. None of these compounds is organic.</p>	I	Na_2CO_3	II	$\text{CH}_3\text{CH}_2\text{CH}_3$	III	CH_3OH
I	Na_2CO_3						
II	$\text{CH}_3\text{CH}_2\text{CH}_3$						
III	CH_3OH						
4	<p>An atom is found to have seven valence electrons. To which family of elements in the periodic table does this atom belong?</p> <p>A. noble gases B. halogens C. alkaline earth metals D. alkali metals</p>						
5	<p>What is the nucleus of any atom, except hydrogen, made up of?</p> <p>A. only neutrons B. only protons C. equal numbers of electrons and protons D. neutrons and protons</p>						
6	<p>What is the name of the compound Fe_2O_3?</p> <p>A. iron(III) oxide B. iron oxide C. iron(II) oxide D. iron(II) trioxide</p>						
7	<p>Which of the following is a property of a base?</p> <p>A. It has a sour taste. B. It turns litmus paper red. C. It tastes bitter. D. It has a pH less than 7.</p>						

8	<p>What is the name of the compound PbS_2?</p> <p>A. lead sulphide B. lead disulphide C. lead(II) sulphide D. lead(IV) sulphide</p>
9	<p>Which compound has no covalent bonds?</p> <p>A. Na_2SO_4 B. KCl C. KClO_3 D. CH_3Cl</p>
10	<p>What is the correct formula for the compound that contains magnesium and phosphate ions?</p> <p>A. MgPO_4 B. Mg_3PO_4 C. $\text{Mg}_2(\text{PO}_4)_3$ D. $\text{Mg}_3(\text{PO}_4)_2$</p>
11	<p>Which name and formula match correctly?</p> <p>A. magnesium fluoride, MgF_2 B. sodium sulphide, NaS C. aluminum iodide, $\text{Al}(\text{IO}_3)_3$ D. iron(II) oxide, FeO_2</p>
12	<p>Which is the formula for aluminum carbonate?</p> <p>A. AlC_3 B. AlCO_3 C. Al_2C_3 D. $\text{Al}_2(\text{CO}_3)_3$</p>
13	<p>Which of the following sets of coefficients will balance the following skeleton equation?</p> $\text{AlCl}_3 + \text{K} \rightarrow \text{KCl} + \text{Al}$ <p>A. 1, 2, 1, 2 B. 2, 6, 6, 1 C. 1, 3, 3, 1 D. 1, 2, 3, 1</p>
14	<p>What is the charge on the plutonium atom (Pu) in the compound Pu_2O_5?</p> <p>A. 3+ B. 4+ C. 5+ D. 6+</p>

<p>15</p>	<p>What are the coefficients, from left to right, that correctly balance the following equation?</p> $\underline{\quad} \text{Sn}(\text{NO}_2)_4 + \underline{\quad} \text{K}_3\text{PO}_4 \rightarrow \underline{\quad} \text{KNO}_2 + \underline{\quad} \text{Sn}_3(\text{PO}_4)_4$ <p>A. 3, 4, 12, 1 B. 3, 3, 6, 1 C. 6, 3, 4, 2 D. 6, 4, 2, 12</p>
<p>16</p>	<p>What is the name of PbO_2?</p> <p>A. lead(II) dioxide B. lead(IV) oxide C. lead dioxide D. phosphorus boron oxide</p>
<p>17</p>	<p>What is the correct formula for aluminum hydroxide?</p> <p>A. Al_3OH B. AlOH_3 C. $\text{Al}(\text{OH})_3$ D. $\text{Al}(\text{OH}_3)$</p>
<p>18</p>	<p>What are substances with a pH above 7 considered to be?</p> <p>A. basic B. acidic C. salty D. neutral</p>
<p>19</p>	<p>Which is <i>not</i> a characteristic of acids?</p> <p>A. bitter taste B. turn litmus red C. react with bases to form salts D. react with active metals to form H_2 gas</p>
<p>20</p>	<p>What are the coefficients, from left to right, that correctly balance the following equation?</p> $\underline{\quad} \text{C}_2\text{H}_6 + \underline{\quad} \text{O}_2 \rightarrow \underline{\quad} \text{CO}_2 + \underline{\quad} \text{H}_2\text{O}$ <p>A. 1, 3, 2, 3 B. 1, 7, 2, 3 C. 2, 7, 4, 6 D. 2, 3, 4, 6</p>

Name: _____

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Write the formula or name of the following compounds.

(a) iron(III) chloride _____

(b) ammonium phosphate _____

(c) dinitrogen trisulphide _____

(d) P_4O_{10} _____

(e) Na_2SO_4 _____

