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| The purest form of a chemical substance and are composed of only one type of atom.  **Element or Compound** | A chemical substance that is composed of at least two different types of elements.  **Molecule or Compound** |
| A substance that is formed when two or more atoms are chemically bonded together, the atoms can be the same type or different types.  **Molecule or Compound** | The materials that are present at the beginning of a reaction written on the left-hand side of the yield arrow.  **Product or Reactant** |
| Numbers in front of the formulas, indicating the number of molecules of each kind involved in the reaction.  **Co-Efficient or Subscript** | Numbers to the lower right of chemical symbols in a formula, indicating the specific number of atoms of the element found in the substance.  **Co-Efficient or Subscript** |
| Name the 5 Signs of a  Chemical Reaction.  (PECSB) | How many elements are in  Li2SO4? |
| How many atoms are in Li2SO4? | How many Molecules are in 3Al2O3? |

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| A chemical substance that is composed of at least two different types of elements.  **Molecule or Compound** | The purest form of a chemical substance and are composed of only one type of atom.  **Element or Compound** |
| The materials that are present at the beginning of a reaction written on the left-hand side of the yield arrow.  **Product or Reactant** | A substance that is formed when two or more atoms are chemically bonded together, the atoms can be the same type or different types.  **Molecule or Compound** |
| Numbers to the lower right of chemical symbols in a formula, indicating the specific number of atoms of the element found in the substance.  **Co-Efficient or Subscript** | Numbers in front of the formulas, indicating the number of molecules of each kind involved in the reaction.  **Co-Efficient or Subscript** |
| How many elements are in  Li2SO4?  **3 – elements/Different** | Name the 5 Signs of a Chemical Reaction.  (PECSB)  Precipitate  Energy Change  Color Change  Smell  Bubbles |
| How many atoms are in 3Al2O3?  3 | How many atoms are in Li2SO4?  7 |

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| How many Atoms of Al are in 3Al2O3? | How Many Molecules are in the Reactant Side  E:\2016-2017\chem reaction pic.jpg |
| When I say “Atoms” You Say “\_\_\_\_\_\_\_” | When I say “Elements” You say “\_\_\_\_\_\_\_\_\_\_\_\_\_” |
| Image result for chemical reaction clipart  How Many Atom are in the Product Side | E:\2016-2017\precipitate.jpg |
| 132 g  What is the Total Mass of the Product? | Explain the Meaning of  “What you Start with …. You end With” |
| Is an Exothermic Change  Hot or Cold | Is an Endothermic Change  Hot or Cold |

What sign of a Chemical Change is displayed?

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| How Many Molecules are in the Reactant Side  1  E:\2016-2017\chem reaction pic.jpg  2 | How many Atoms of Al are in 3Al2O3?  6 |
| When I say “Elements” You say “Different” | When I say “Atoms” You Say “Total” |
| What sign of a Chemical Change is displayed?  **Precipitate** | Image result for chemical reaction clipart  How Many Atom are in the Product Side  6 |
| Explain the Meaning of  “What you Start with …. You end With”  **The Law of Conservation states Matter can NOT be CREATED nor DESTROYED, Mass just simply moves from one form to the next.** | **132 g**  132 g  132 g |
| Is an Endothermic Change  Hot or **Cold** | Is an Exothermic Change  **Hot** or Cold |

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| Does the following  Equation Support the Law of Conservation? | Does the following equation Support the Law of Conservation? |
| Complete a single T chart for  3C2H4O2  How Many Total Atoms  How Many Different Elements  How Many Molecules | Complete a single T chart for  Na(OH)2  How Many Total Atoms  How Many Different Elements  How Many Molecules |
| What is the correct chemical formula for a compound that contains 2 atoms of sodium, 1 atom of sulfur, and 4 atoms of oxygen?  A) NA2SO4 B) Na2S1O4  C) Na2SO4 D) na2S1O4 | This Molecule represents which of the following?  A) CA2O3C B) CaCO3 |
| How Many Oxygen Atoms are Present? | How Many Molecules are Present? |
| Physical or Chemical Change  An ice cube is placed in the sun. Later there is a puddle of water. Later still the puddle is gone. | Physical or Chemical Change  Two chemical are mixed together and a gas is produce. |

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| Does the following equation Support the Law of Conservation?  YES | Does the following equation Support the Law of Conservation?  **No – Oxygen is Not Bal** |
| How Many Total Atoms - 5  How Many Different Elements - 3  How Many Molecules 1  Na(OH)2  1  2  2  Na  O  H | How Many Total Atoms - 24  How Many Different Elements - 3  How Many Molecules 3  6  12  6  C  H  O |
| B) CaCO3 | What is the correct chemical formula for a compound that contains 2 atoms of sodium, 1 atom of sulfur, and 4 atoms of oxygen?  **A) NA2SO4** B) Na2S1O4  C) Na2SO4 D) na2S1O4 |
| How Many Molecules are Present? **2** | How Many Oxygen Atoms are Present? **6** |
| Physical or **Chemical** Change  Two chemical are mixed together and a gas is produce | **Physical** or Chemical Change  An ice cube is placed in the sun. Later there is a puddle of water. Later still the puddle is gone. |

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| Physical or Chemical Change  A marshmallow is toasted over a campfire. | Physical or Chemical Change  A solid is crushed to a powder. |
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| Physical or **Chemical** Change  A marshmallow is toasted over a campfire. | **Physical** or Chemical Change  A solid is crushed  to a powder. |
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