|  |  |
| --- | --- |
| 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? |

|  |  |
| --- | --- |
| 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)PrecipitateEnergy ChangeColor ChangeSmellBubbles |
| How many atoms are in 3Al2O3?3 | How many atoms are in Li2SO4?7 |

|  |  |
| --- | --- |
|  How many Atoms of Al are in 3Al2O3? | How Many Molecules are in the Reactant SideE:\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 gWhat 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?

|  |  |
| --- | --- |
|  How Many Molecules are in the Reactant Side1E:\2016-2017\chem reaction pic.jpg2 | 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 Side6 |
| 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 g132 g |
| Is an Endothermic Change Hot or **Cold** | Is an Exothermic Change**Hot** or Cold |

|  |  |
| --- | --- |
|  Does the following Equation Support the Law of Conservation? | Does the following equation Support the Law of Conservation? |
|  Complete a single T chart for 3C2H4O2How Many Total AtomsHow Many Different ElementsHow Many Molecules |  Complete a single T chart for  Na(OH)2How Many Total AtomsHow Many Different ElementsHow 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 ChangeAn ice cube is placed in the sun. Later there is a puddle of water. Later still the puddle is gone. | Physical or Chemical ChangeTwo chemical are mixed together and a gas is produce. |

|  |  |
| --- | --- |
|  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 - 5How Many Different Elements - 3How Many Molecules 1 Na(OH)2122NaOH | How Many Total Atoms - 24How Many Different Elements - 3How Many Molecules 36126CHO |
|  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** ChangeTwo chemical are mixed together and a gas is produce | **Physical** or Chemical ChangeAn ice cube is placed in the sun. Later there is a puddle of water. Later still the puddle is gone. |

|  |  |
| --- | --- |
| Physical or Chemical ChangeA marshmallow is toasted over a campfire. | Physical or Chemical ChangeA solid is crushed to a powder. |
|  |  |
|  |  |
|  |  |
|  |  |

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

|  |  |
| --- | --- |
|   |  |
|  |  |
|  |  |
|  |  |
|  |  |

|  |  |
| --- | --- |
|   |  |
|  |  |
|  |  |
|  |  |
|  |  |