NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DATE DUE: \_\_\_\_\_\_\_\_\_\_\_\_

TEACHER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**/23.5**

**Year 8 Term 1 – Chemistry**

**HOMEWORK SHEET No. 3 – LG 2**

|  |  |
| --- | --- |
| /3 | **1.** Write a definition for each of the following terms:(a) Element – **a substance composed (made up) of only one type of atom**(b) Compound – **a substance composed (made up) of two or more types of atoms chemically bonded together**(c) Mixture – **a substance composed (made up) of two or more substance which are physically joined but NOT chemically bonded together** |
| /3 | **2.** Look at the diagrams below and below each write wether the diagram represents the particles in an element, a compound or a mixture.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| i. | ii.  | iii.  | iv. | v. | vi. |

 **Element Compound Compound Element Mixture Mixture** |
| **/4.5** | **3.** Identify each of the following as either an element or a compound. (a) O2 **Element** (b) CO2 **Compound** (c) H2 **Element** (d) HF **Compound** (e) Fe **Element** (f) H2S **Compound** (g) C6H12O6 **Compound** (h) CO **Compound** (i) Co **Element** |
| /3 | **4.** Draw diagrams for each of the elements/compounds in the table below. Three examples are shown for you.

|  |  |  |  |
| --- | --- | --- | --- |
| Formula | Drawing | Formula | Drawing |
| H2 | HH | SO2 | OSO |
| C2H5OH |  | BaF2 | FBaF |
| CaOH | HCaO | C2H6 | HHHHHHCC |

 |
|  | **5.** On the next page complete the mini periodic table for the first twenty elements |
|  |  |
| **/20** |

|  |
| --- |
|  |
| **1****Hydrogen****H** |  |  |  |  |  |  |  | **2****Helium****He** |
| **3****Lithium****Li** | **4****Beryllium****Be** | TRANSITIONMETALS | **5****Boron****B** | **6****Carbon****C** | **7****Nitrogen****N** | **8****Oxygen****O** | **9****Flourine****F** | **10****Neon****Ne** |
| **11****Sodium****Na** | **12****Magnesium****Mg** |  | **13****Aluminium****Al** | **14****Silicon****Si** | **15****Phosphorous****P**  | **16****Sulphur****S** | **17****Chlorine****Cl** | **18****Argon****Ar** |
| **19****Potassium****K** | **20****Calcium****Ca** |  | Metals Semi-metals Non-metals |  |  |  |  |  |

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