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 | H  H | SO2 | O  S  O | | C2H5OH |  | BaF2 | F  Ba  F | | CaOH | H  Ca  O | C2H6 | H  H  H  H  H  H  C  C | |
|  | **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 |  |  |  |  |  | |