**Library Research /5 Marks Names:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Position in Periodic Table**  **Element: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  Family (Group) name:  Properties or characteristics of family (group):  Period number/ # of electron shells:  Atomic number and mass:  **Element: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  Family (Group) name:  Properties or characteristics of family (group):  Period number/ # of electron shells:  Atomic number and mass: | **Symbols:** | **Introduction to Group:** Include information such as common chemical/physical characteristics of elements in group; historical/present day global and ecological significance; Other intriguing facts about group. | | |
| **A description of the atoms that makes up each element**  **Element:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  # protons:    # neutrons:  # electrons: ion charge(s):  **Element:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  # protons:    # neutrons:  # electrons: ion charge(s): | | | **Physical and Chemical Properties (**appearance, colour, texture, reactivity with other elements, important compounds formed with other elements, conductivity, malleability, ductility, brittleness etc.)  **Element :\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **State at room temperature (circle one):**  **Solid Liquid Gas**  **Type of Element (circle one):**  **Metal non- metal metalloid?**  **Element:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **State at room temperature (circle one):**  **Solid Liquid Gas**  **Type of Element (circle one):**  **Metal non- metal metalloid?**  **Where each element is found in nature/the universe; How are the elements obtained? What is the relative abundance of each element (how common/rare is the element).**  **Element:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Element:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **Similarities/Differences Between Two Elements:** | | |
| **What types of applications is your element used for?** (i.e. Jewellery, medicine, technology) Give specific examples of uses or objects your elements are found in.  **Give a minimum of four uses for each element!**  **Element:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Element:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | | | |
| **Other interesting information about the elements? Why are elements important to humans/ plants/ other organisms and/or in inanimate objects?**  **Element: Element:** | | | | |
| **1.**  **2.**  **3.**  **4.**  **5.** | | | **1.**  **2.**  **3.**  **4.**  **5.** | |
| **List Sources of Information (include at *least* ONE print source)- Five minimum! Use EasyBib for proper citations!**  **Enter these into Bibme.org or EasyBib or refer to library citation reference sheet to create list.** | | | | |