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

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| **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.** |