Key for Properties of Elements Table

***Use the internet to learn about the reactivity and some physical properties of the following substances.***

***Complete the table below.***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Properties to Research*** | ***Silver*** | ***Iron*** | ***Sodium*** | ***Bromine*** |
| ***How Reactive am I?*** *(very, mildly, rarely) –Name two compounds formed with element listed.* | ***Mildly Reactive***  ***AgCl AgBr (chemical formula)*** | ***Very***  ***Iron Oxide***  ***Iron Chloride*** | ***Very***  ***NaCl NaOH***  ***sodium peroxide***  ***sodium sulphate*** | ***Very reactive***  ***bromine dioxide***  ***potassium bromide*** |
| ***Are compounds easily formed with Oxygen?***  *Yes, No or Sometimes – Give example!* | ***Silver is not reactive with oxygen*** | ***Yes reacts easily with oxygen***  ***-rust – iron oxide*** | ***Yes***  ***Sodium peroxide*** | ***Yes***  ***Bromine dioxide*** |
| ***Electrical conductivity*** *Poor, Good, Excellent* | ***Excellent*** | ***Poor/good*** | ***good*** | ***Very poor*** |
| ***Density (units)*** | ***10.5 g/cm3*** | ***7.9 g/cm3*** | ***9.71 g/cm3*** | ***3.19 g/cm3*** |
| ***Melting point/Freezing point (°C)*** | ***2212 °C*** | ***1538 °C*** | ***97.8 °C*** | ***-7.2 °C*** |
| ***State at room temperature (25°C)*** *Solid, Liquid or Gas* | ***Solid*** | ***Solid*** | ***Solid*** | ***liquid*** |