Y9 The Periodic Table

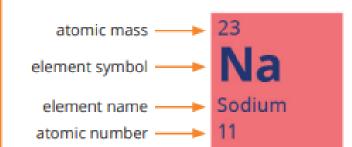
The Periodic Table

Elements

An element is a substance that cannot be broken down into other substances. The smallest part of an element that can exist is an atom.

Each element is represented by a symbol. The first letter of the symbol is always capitalised, any following letters are lower case.

The symbols for the elements are arranged on the periodic table.



Elements are arranged into groups based on shiny dull their properties. Those with similar properties good conductor of heat poor conductor of heat are found in the same group. good conductor of electricity poor conductor of electricity sonorous not sonorous Metals are found on the left of the stepped oxides form alkaline solutions oxides form acidic solutions line, and non-metals on the right. However, high density low density some elements, particularly those close to the malleable brittle line have properties of both. ductile metals non-metals 1 2 н Be Na Mg Si CI | Cr | Mn | Fe | Co | Ni | Cu | Zn | Ga | Ge | As Y | Zr | Nb | Mo | Tc | Ru | Rh | Pd | Ag | Cd | In | Sn | Sb CS | Ba | La | Hf | Ta | W | Re | Os | Ir | Pt | Au | Hg | TI | Pb | Bi | Po | Ra Ac Rf Db Sg Bh Hs Mt Ds Rg Cn Nh Fl Mc Lv alkali metals halogens noble gases **Properties of Alkali Metals Properties of Halogens Properties of Noble Gases** solids at room temperature (melting some solids, a liquid and some gases at room temperature (the and boiling points decrease melting and boiling points increase gases at room temperature moving down the group) (melting and boiling points increase as you move down the group) moving down the group) very reactive (reactivity increases · unreactive (however reactivity moving down the group) very reactive (reactivity decreases increases slightly as you moving down the group) move down the group) good conductors of heat and electricity poor conductors of heat and electricity poor conductors of heat and electricity soft solids are brittle shiny when cut low density low density low density

Properties of Metals

Properties of Non-Metals