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the metals consist of the alkali metals alkaline earths transition metals lanthanides and actinides elements that are not metals include the metalloids nonmetals halogens and noble gases here is a list of metals their location on the periodic table their properties and uses a metal from ancient greek μέταλλον métallon mine quarry metal is a material that when freshly prepared polished or fractured shows a lustrous appearance and conducts electricity and heat relatively well metal any of a class of substances characterized by high electrical and thermal conductivity as well as by malleability ductility and high reflectivity of light approximately three quarters of all known chemical elements are metals metals are lustrous malleable ductile good conductors of heat and electricity other properties include state metals are solids at room temperature with the exception of mercury which is liquid at room temperature gallium is liquid on hot days metals lose electrons to form cations when reacting with non metals non metals gain electrons to form anions when reacting with metals we pause here to point out an important exception to the statement that nonmetals tend to form anions a metallic bond is the attraction of the stationary metal cations to the surrounding mobile electrons figure pageindex 2 in a metal the stationary metal cations are surrounded by a sea of mobile valence electrons that are not associated with any one cation

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metal any of a class of substances characterized by high electrical and thermal conductivity as well as by malleability ductility and high reflectivity of light approximately three quarters of all known chemical elements are metals

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