amorphous	like crystalline solids, materials that are usually characterised by certain areas of short-range order; a long- range order, as in crystals does not exist in such substances
atomic bonding	an electrostatic attractive force within and between atoms that allows the formation of materials containing two or more atoms
austenite	the face centred cubic (FCC) phase of iron containing some dissolved carbon
brass	an alloy of copper and up to 43% zinc
bronze	a term generally applied to an alloy of copper and up to 10% tin

cementite	the name given to iron carbide with the general formula Fe3C
ceramic	a multi-phase material containing phase composed of compounds of metals and non- metals; they are typically hard and good insulators
composites	represents a class of material whose properties derive from the combination of two or more materials that are bonded together such that each of the constituent materials contributes to an improvement in mechanical, physical, chemical or electrical properties
concrete	a mixture of aggregate embedded in a cement binding matrix composed of sand, water and cement
crystal	a material whose atoms or molecules are arranged in a predictable or ordered pattern based around all three- dimensional axes

density	a measure of the quantity of mass per unit volume
ductility	the ability of a material to undergo plastic deformation by extrusion or the application of tensile forces
ferrous	metals based on the metallic element iron (Fe); the two most common of these are steel and cast iron, distinguished primarily by the percentage of carbon present
fulcrum	a point of support and turning about which lever arms pivot
hardness	the resistance of a material to scratching or abrasion; this may also refer to resistance to indentation, penetration or cutting

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