

Hardness and soft

What will you do if you're told to sleep on any iron bed without a mattress? Definitely you would say no. You cannot sleep on an iron bed because it is **hard** and does not compress while the mattress is made of **soft** material that compresses on applying pressure. Likewise, touch a stone, its surface is **rough** but the sponge will be very soft.

Hardness: The materials which do not compress on applying pressure on it. Thus, materials are called hard materials. It is a solid in nature. For example: Chair, All metals

(except mercury is liquid in nature) .

Softness: The materials which can easily compress on applying pressure on it. Thus, materials are called soft materials. It is a solid in nature but soft. For example: Rubber, eraser, sponge etc.



Hard iron bed