

Hardness and soft

What will you do if you're told to sleep on any iron bed without 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