

Keywords: Spring 1

Engineering

Topic Title: Manipulating materials.

Introduction to the topic: Why are you learning it and how does it link to what you've learned before?

Comparing materials and techniques.

What lessons will you cover during the topic?

How to manipulate materials, what to use when and why.

Keyword	Definition
Hardness	The ability of a material to resist surface indentation or scratching
Toughness	The ability of a material to resist impact forces
Compressive Strength	The ability of a material to resist 'squashing' forces
Tensile Strength	The ability of a material to resist 'pulling' or 'stretching' forces
Malleability	The ability of a material to deform under pressure without fracture
Ductility	The ability of a material to be drawn out in to a wire without fracture
Elasticity	The ability of a material to deform and return to its original shape
Conductive	The ability of a material to transmit heat or electrical current
Material	A generic term used to describe woods, metals, polymers or composites
Properties	The characteristics of a material