

MATERIAL PROPERTIES - ACTIVITIES

1. Match the two parts to make correct sentences:

If a material is stiff	it is malleable and/or ductile.
If a material is brittle	it has low elasticity and high tensile strength.
If a material is plastic	it has been loaded beyond its ultimate tensile strength.
If a material yields	it has been extended to a point before its elastic limit.
If a material fractures	it has low elasticity and low tensile strength.
If a material is elastically deformed	it has been significantly plastically deformed, but not broken.

2. Use the words in the box to complete the sentences:

compression deformation elongation extension tension

- A. A stretching force is called
- B. A crushing force is called
- C. Extension is also called
- D. Tension causes or
- E. Tension or compression cause

3. Match the words in the box with the definitions.

ductility malleable plastic natural insulator

- A. Coming from nature, such as wood.
- B. A common synthetic material.
- C. A material's ability to not break.
- D. A material that contains heat or electricity.
- E. Easily shaped or bent.