

Activity sheet 3

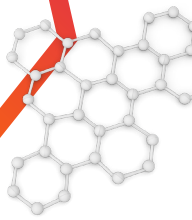
Explore the Engineering materials interactive tool to write a definition of each material property.

Then, add a 'P' or 'M' in the final column to show whether each one is a physical or mechanical property.

Boiling point		
Brittleness		
Compressive strength		
Density		
Ductility		
Elasticity		
Electrical conductivity		
Hardenability		
Hardness		
Magnetic permeability		

Activity sheet 3 continued

Malleability		
Melting point		
Permittivity		
Plasticity		
Shear strength		
Specific heat capacity (SHC)		
Tensile strength		
Thermal conductivity		
Thermal expansivity		
Torsional strength		



Activity sheet 4

What materials might you, or did you, use in your industry placement, or what might you use in your first job?

What equipment or machines might you, or did you, use or observe?

Materials:

Equipment and machines:

Suggest some general engineering controls and administrative controls that might remove risks from the materials you might work with and any other materials or chemicals you may need to use. How might your workplace or machines be designed, and how might you be trained?

Engineering controls:

Administrative controls: