

Y5 Science – Properties of Materials

Knowledge

Compare materials according to their properties.

Compare materials according to their thermal insulating properties.

Compare materials according to their electrical conducting properties.

Compare paper according to strength.

Sort and group together everyday materials on the basis of their properties.

Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic.



Woolly Saucepan

Could I have
a woolly saucepan
a metal jumper
a glass chair
and a wooden window-pane please?

Er-sorry – I mean
a woolly chair
a glass jumper
a wooden saucepan
and a metal window-pane please?

Er-sorry – I mean
Oh – blow it!
You know what I mean, don't you?



Cross Curricular links/Past knowledge

Y1 Science - Learning names of common materials and comparing their properties.

Y2 Science - comparing suitability of materials, how shapes and solid objects can be changed by stretching, bending and twisting

Y3 Science - classifying rocks

Y4 Science - electricity

Y5 Science electricity

Computing Databases

DT- Using materi

Vocab

Properties, hardness, transparency, electrical conductor/insulator, thermal conductor/insulator, magnetic, nonmagnetic, separate, solids, liquid, gases,, rusting, permeable, flexible, flammable, translucent, opaque, material, compare

Working Scientifically

Take measurements with increasing accuracy.

Record data in an appropriate graph.

Select appropriate equipment from a wider range.

Begin to consider the scale and degree of accuracy required on measuring equipment.

Use a wide range of equipment correctly and safely.

Relate patterns in results to scientific knowledge where appropriate.