



MATERIALS & PROPERTIES, YEAR 5, TERM 2

KEY SCIENCE KNOWLEDGE

MATERIALS HAVE DIFFERENT PROPERTIES, SUCH AS THEIR THERMAL AND ELECTRICAL CONDUCTIVITY, WHICH INFLUENCE THEIR USES.

KEY SCIENCE VOCABULARY

THERMAL	INSOLUBLE
ELECTRICAL	MAGNETISM
CONDUCTOR	TRANSPARENCY
INSULATOR	FLEXIBILITY
REVERSIBLE	PERMEABILITY
CHANGE	HARDNESS
DISSOLVING	NATURAL
MELTING	MAN-MADE
SOLUBLE	



KEY SCIENCE SKILLS

- COMPARE AND GROUP TOGETHER EVERYDAY MATERIALS ON THE BASIS OF THEIR PROPERTIES, INCLUDING THEIR HARDNESS, SOLUBILITY, TRANSPARENCY, CONDUCTIVITY AND RESPONSE TO MAGNETS.
- KNOW THAT SOME MATERIALS WILL DISSOLVE IN LIQUID TO SOLVE A SOLUTION AND DESCRIBE HOW TO RECOVER A SUBSTANCE FROM A SOLUTION.



WHAT I MIGHT ALREADY KNOW

THERE ARE LOTS OF DIFFERENT TYPES OF MATERIALS. THEY MAY FEEL DIFFERENT AND SOME OF THEM ARE HARDER/SOFTER THAN OTHERS.

TRY AT HOME:

WITH AN ADULT, FILL A CUP WITH WARM WATER. ADD A TEASPOONFUL OF SUGAR AND STIR. WATCH WHAT HAPPENS TO THE SUGAR OVER TIME.