

Year 5/6, Topic 2 , Switched on Science



SWITCHED ON **Science**

Second Edition

Material world

In this topic you will:

- identify the properties of some materials.
- plan tests and make accurate observations.
- explore making and separating mixtures.
- use good scientific language to explain ideas.
- report and present findings from enquiries.

Key vocabulary

- Dissolve
- Elastic
- Electrical conductor
- Electrical insulator
- Evaporate
- Filter
- Flexible
- Hard
- Mixture
- Plastic
- Rigid
- Soluble
- Solute
- Solution
- Solvent
- Strong
- Thermal conductor
- Tough



Did you know?

- Graphene is the thinnest material, but still stronger than Superman.
- Geckskin™ is a super-strong adhesive that can hold up to 330 kg on a smooth wall. That's the weight of a Harley-Davidson motorbike!
- A thread of spider silk breaks less easily than a thread of steel.
- Pearls will melt in vinegar.
- All materials on Earth are made from just 92 naturally occurring materials.



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Which spoons are best for stirring a hot liquid, why? Is the material a thermal insulator or thermal conductor?



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Look at these pictures.

Where are there thermal insulators?

Where are there thermal conductors?



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Which idea will you test?

1. I think that the amount of sugar affects how quickly it will dissolve.

3. I think that if we stir the sugar and water it will dissolve more quickly.

Dissolving
sugar into
liquid

2. I think that the temperature of the water affects how quickly the sugar will dissolve.

4. I think that the amount of water affects how quickly the sugar dissolves.

Investigation planning board

	Place sticky notes here
What will you change?	
What will you measure to show a change?	
	Place sticky notes here
We will make it fair by...	
We will use...	
This is the table for our results.	
This is a sketch of our graph.	