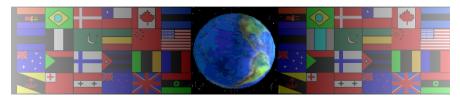
## **SMART MATERIALS**

V.Ryan © 2000 - 2013

On behalf of The World Association of Technology Teachers

W.A.T.T.



World Association of Technology Teachers

This exercise can be printed and used by teachers and students. It is recommended that you view the website (www.technologystudent.com) before attempting the design sheet.

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## **SMART MATERIALS** THERMOCHROMIC INKS

Properties of Thermochromic Inks:

They come in a range of colours.

They change colour as the temperature goes up or down.

Expensive compared to normal inks to buy.

They can be applied to most surfaces.

Courtesy of www.technologystudent.com

## **SMART MATERIALS** THERMOCHROMIC INKS

An amusing and  $^{\text{COOLED\,IN}}_{\text{FRIDGE}}$ interesting application of thermocromic inks can be seen on the label of 'Coors Light'. In its normal state, the mountains on the label remain white. However, when cooled to the correct drinking temperature the mountains turn blue.



Courtesy of www.technologystudent.com

1. Name either a n	ew or a smart materia	al. 1 mark			
2a. What are the p	hysical properties of t	he new/smart material you	have name? 2	marks	
2b. Explain how yo	ur chosen smart mat	erial is used in an existing p	oroduct. 3 mark	(S	