

SMART MATERIALS

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On behalf of The World Association of Technology Teachers

W.A.T.T.



World Association of Technology Teachers

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SMART MATERIALS 1

THERMOCHROMIC INKS

Properties of Thermo-chromic 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 2

THERMOCHROMIC INKS

An amusing and interesting application of thermochromic 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.

COOLED IN FRIDGE



Courtesy of www.technologystudent.com

1. Name either a new or a smart material. 1 mark

2a. What are the physical properties of the new/smart material you have name? 2 marks

2b. Explain how your chosen smart material is used in an existing product. 3 marks
