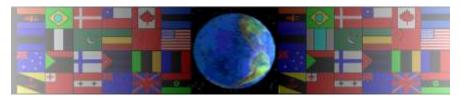
## **EXAMINATION PREPARATION**

V.Ryan © 2000 - 2009

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.

THESE MATERIALS CAN BE PRINTED AND USED BY TEACHERS AND STUDENTS.

THEY MUST NOT BE EDITED IN ANY WAY OR PLACED ON ANY OTHER MEDIA INCLUDING WEB SITES AND INTRANETS.

NOT FOR COMMERCIAL USE.

THIS WORK IS PROTECTED BY COPYRIGHT LAW.

IT IS ILLEGAL TO DISPLAY THIS WORK ON ANY WEBSITE/MEDIA STORAGE OTHER THAN www.technologystudent.com

## HIGH DENSITY POLYETHYLENE (HDPE)



High Density Polyethylene (HDPE). HDPE is used to make bottles for fruit juice, milk, water, kitchen cleansing products and even furniture. It has been used in recent years for garden furniture and recycling bins as it resists the weather and can be cleaned very easily. It is lightweight which means bins made from this material can be handled and transported very easily. It is an ideal material for the injection moulding process making it suitable for batch and continuous production. It has the following properties:

Stiffness, strength, toughness, resistance to chemicals and moisture, permeability to gas, ease of processing, and ease of forming.

## **KEY WORDS**

CHEAP LIGH		HTWEIGHT R		CYCLABLE		PIGMENTED
TOUGH		STRONG		RESISTANT		CLEANING
	of outdoor	oin seen on the preving bins? Wr				
		MIL	D STEEL	=		
		A common steel used widely in school workshops and in the construction and manufacturing industries. Relatively easy to form and shape. Tends to rust if not galvanised or coated with paint.				
RECYCLABLE STEEL		Smaller sections can be shaped by hand tools and formed by 'hand' pressure. Larger sections require machines such as centre lathes and milling machines for shaping and heating to red heat when forming into shapes and forging.				
<u>KEY WORDS</u>						
CHEAP	RUST	HARD WAR	ING	RECYCLABLE		GREY
TOUGH		STF	RONG	RES	ISTAN	
		ism seen on the prevouple of sentences o				