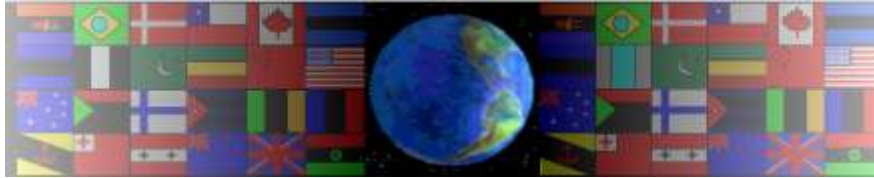


# EXAMINATION PREPARATION

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](http://www.technologystudent.com)) before attempting the design sheet .

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# PRODUCT ANALYSIS - EXERCISE 1

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Look at the recycling bin opposite. The container has been manufactured from low density polyethylene and also the bins. It has a foot pedal and mechanism that operates the lid. The container and bins are relatively large and would be used in a commercial kitchen rather than for domestic use.

You are to carry out a product analysis of the recycling bin. Write a sentence or more alongside the prompts.

1. Materials: \_\_\_\_\_

2. Estimated height, width and depth: \_\_\_\_\_

3. Strength and resistance to knocks: \_\_\_\_\_

4. Specific properties of high density polystyrene/polyethylene: \_\_\_\_\_

5. Stability / balance: \_\_\_\_\_

6. Safety: \_\_\_\_\_

7. Manufacturing processes: \_\_\_\_\_

8. Overall style / design: \_\_\_\_\_

9. Efficiency of pedal mechanism: \_\_\_\_\_

10. Strength: \_\_\_\_\_

11. Estimated cost in the shops: \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

## DESIGN / PRODUCT IMPROVEMENTS

Now that you have carried out your own product analysis, describe a few design improvements.

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