

EXAMINATION PREPARATION

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On behalf of The World Association of Technology Teachers

W.A.T.T.



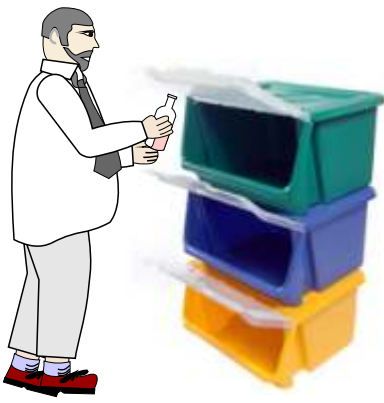
World Association of Technology Teachers

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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PRODUCT ANALYSIS - EXERCISE 2

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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.
