

NAME: _____

FORM/GROUP _____

DESIGN AND TECHNOLOGY REVISION BOOKLET

9

WORLD ASSOCIATION OF TECHNOLOGY TEACHERS

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THE ENVIRONMENT - BOOKLET 1

RECYCLING - UPCYCLING
RECYCLING - DOWNCYCLING
CLOSES LOOP RECYCLING
ENVIRONMENTAL MODERNISM

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SUITABLE REVISION MATERIAL FOR:

DESIGN AND TECHNOLOGY
PRODUCT DESIGN
RESISTANT MATERIALS
GRAPHIC PRODUCTS

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RECYCLING - UPCYCLING

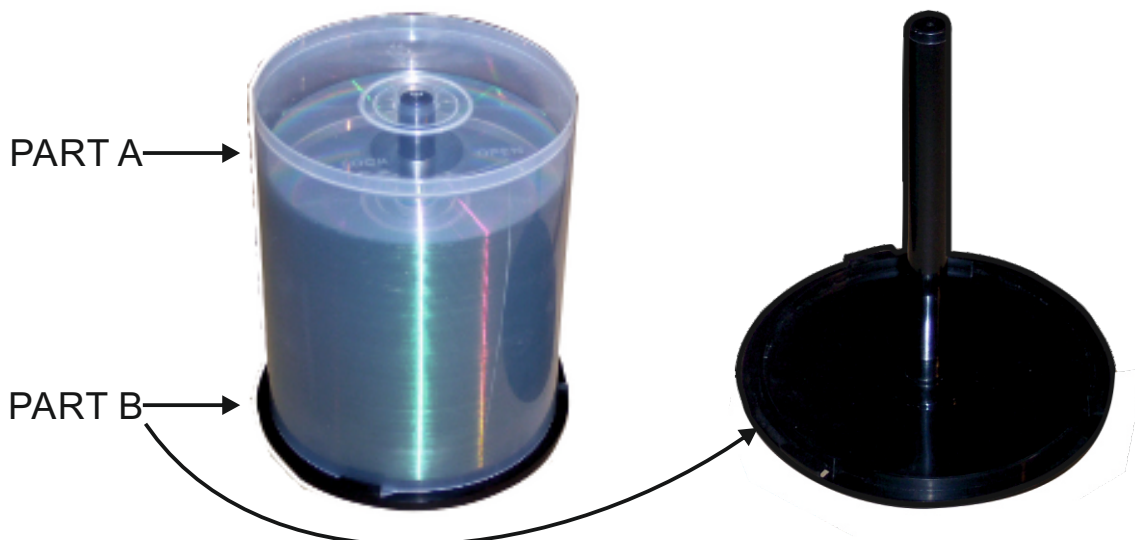
LINK TO HELP AND INFORMATION <https://www.technologystudent.com/prddes1/upcycling1.html>

1. Sketch an 'upcycling' symbol, in the space below. **3 marks**

2. What is 'upcycling'? In your answer, explain how it differs from normal recycling.
4 marks

3. Blank DVDs or CDs are purchased as 'stacks of 50 or 100. They are stacked in a container composed of two parts (see below). Both parts are manufactured from polypropylene (PP). Quite often when the DVD / CDs are all used, the container is simply thrown away.

How could one of the parts be upcycled into a new high quality product? Use the space on the following page, for your sketches and notes.



RECYCLING - UPCYCLING

LINK TO HELP AND INFORMATION <https://www.technologystudent.com/prddes1/upcycling1.html>

QUESTION 3

RECYCLING - DOWNCYCLING

LINK TO HELP AND INFORMATION <https://www.technologystudent.com/prddes1/downcyc1.html>

4. Sketch a 'downcycling' symbol, in the space below. **3 marks**

5. What is 'downcycling'? In your answer, explain how it differs from upcycling.
4 marks

6. Describe the 'downcycling' journey of quality white paper. The sketches below will help you with your descriptive notes. **6 marks**



CLOSED LOOP RECYCLING

LINK TO HELP AND INFORMATION

<https://www.technologystudent.com/prddes1/closetloop1.html>

7. Before the 1990s, when a product came to the end of its useful life time, what happened to it? **2 marks**

8. Why should discarded products, not be 'dumped' in a landfill? **2 marks**

9. How do you contribute to recycling? **2 marks**

10. What is Closed Loop Recycling? **4 marks**

CLOSED LOOP RECYCLING

LINK TO HELP AND INFORMATION

<https://www.technologystudent.com/prddes1/closetloop1.html>

11. Name a material that can be 'closed loop' recycled. **1 mark**

12. With reference to the material you named above, why is it suitable for closed loop recycling? **4 marks**

CLOSED LOOP RECYCLING

LINK TO HELP AND INFORMATION

<https://www.technologystudent.com/prdds1/closetloop2.html>

13. In the space below, name and describe a product that is ideal for closed loop recycling. Then describe the manufacturing and recycling process, from the raw material to product manufacture, collection and reprocessing. Include notes and/or annotated sketches.

8 marks

ENVIRONMENTAL MODERNISM

LINK TO HELP AND INFORMATION

<https://www.technologystudent.com/prddes1/envirmod1.html>

14. What is Environmental Modernism ? *2 marks*

15. How do Environmentalists and Environmental Modernists, differ in their approach to environmental issues? Make reference to energy production in your answer.

6 marks
