

LIFE CYCLE OF A PRODUCT

TO ANSWER ALL THE QUESTIONS YOU WILL NEED TO DOWNLOAD THE 'LIFE CYCLE, RECYCLING, 6Rs' APP, FROM THE INTERACTIVE MOBILE APP SECTION OF www.technologystudent.com

LINK

http://www.technologystudent.com/mobapps/RECYCLING_MOBILE1.pdf

Once you have downloaded the App, you can use it to navigate the website. You may need to follow the links on each page of the App, to research / complete answers to all the questions.

**ARE YOU READY?
USE THE MOBILE App!!**

1

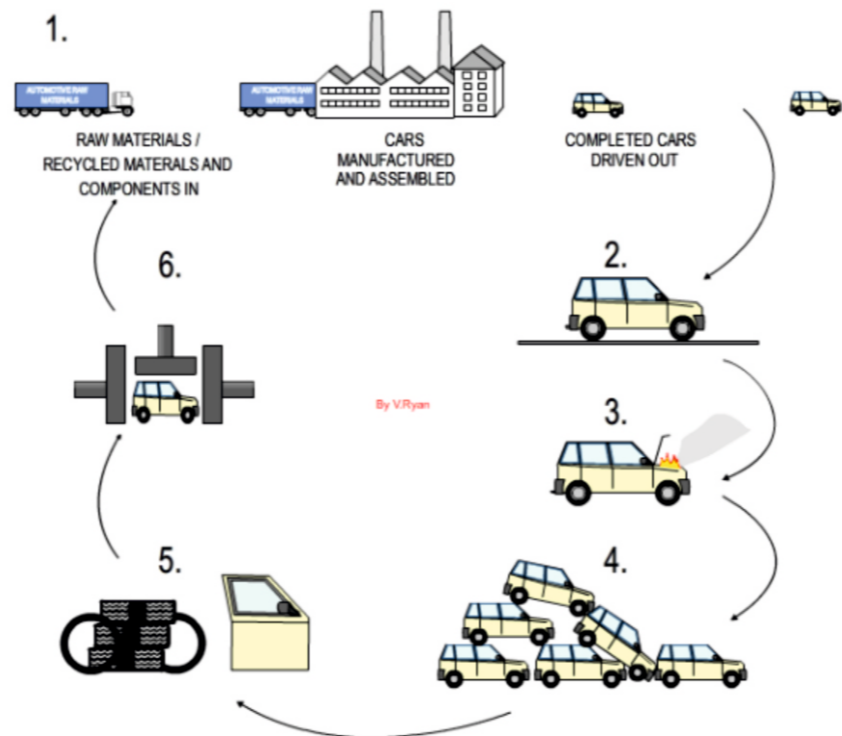
WHAT IS MEANT BY THE TERM, 'LIFE CYCLE OF A PRODUCT'?

2

DESCRIBE THE LIFE CYCLE OF NEWSPAPER, STARTING WITH 'TREES'.

3

THIS DIAGRAM REPRESENTS THE LIFE CYCLE OF A CAR. BRIEFLY, DESCRIBE EACH STAGE

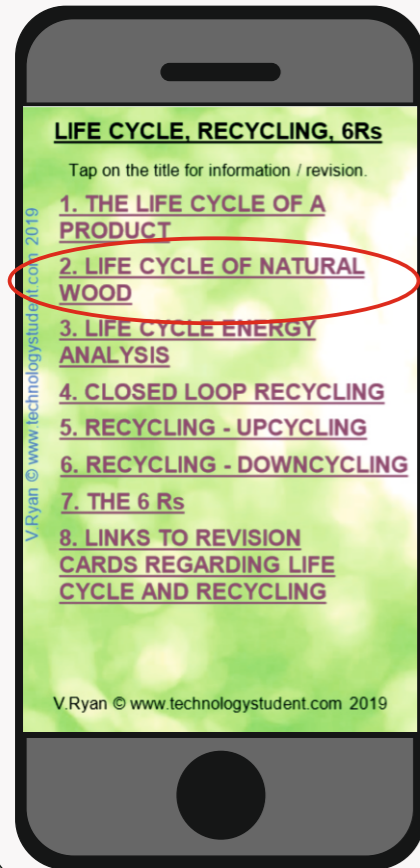


4

LIST MATERIALS 'RECLAIMED' FROM A CAR, THAT CAN BE RECYCLED.

Consider researching, using the internet.

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LIFE CYCLE OF NATURAL WOOD

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THE LIFE CYCLE OF NATURAL WOOD

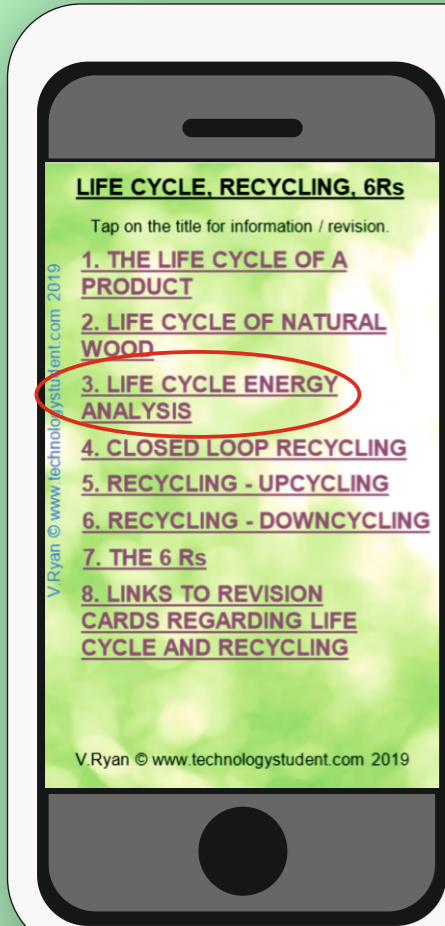
1 NATURAL WOOD, IS A VERSATILE MATERIAL, THAT WE OFTEN RELY ON.

IN THE NEXT BOX, DRAW A PICTORIAL REPRESENTATION, OF THE 'LIFE CYCLE OF NATURAL WOOD'.

INCLUDE HARVESTING OF TREES, SEASONING, PROCESSING, USE IN MANUFACTURE AND RECYCLING / CONVERSION.



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LIFE CYCLE ENERGY ANALYSIS

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2

THIS INCOMPLETE FLOW CHART, GIVES A BREAK-DOWN OF LIFE CYCLE ENERGY ANALYSIS. UNDER EACH STAGE, WRITE BRIEFLY HOW THE USE OF ENERGY, COULD BE REDUCED OR BE MORE ENVIRONMENTALLY FRIENDLY.

1. CALCULATING THE ENERGY REQUIRED FOR THE EXTRACTION OF RAW MATERIALS FROM THE GROUND



2. TRANSPORTATION OF THE RAW MATERIALS TO THE PROCESSING PLANT

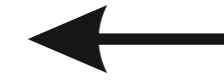


3. THE PROCESSING OF THE RAW MATERIALS INTO USABLE MATERIALS

6. TRANSPORTATION AND DISTRIBUTION OF THE FINISHED PRODUCT TO THE CUSTOMER



5. ENERGY USED AT EVERY STAGE OF MANUFACTURE



4. TRANSPORT OF THE PROCESSED MATERIALS TO THE MANUFACTURING PLANT

7. ENERGY USED BY THE PRODUCT THROUGHOUT IT'S USEFUL LIFETIME



8. ENERGY REQUIRED FOR MAINTENANCE / SERVICING OF THE PRODUCT THROUGHOUT ITS LIFETIME.



9. ENERGY REQUIRED TO RECYCLE / DISPOSAL OF THE PRODUCT AT THE END OF ITS USEFUL WORKING LIFE

1

WHAT IS 'LIFE CYCLE ENERGY ANALYSIS'?

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CLOSED LOOP RECYCLING

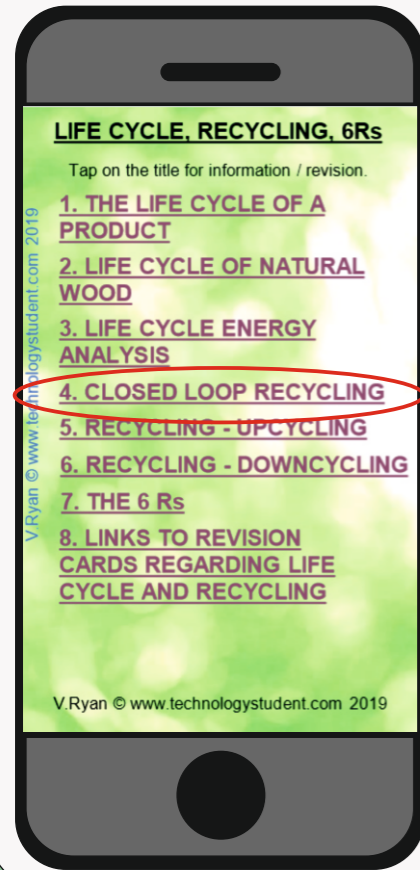
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1

WHAT IS 'CLOSED LOOP RECYCLING'?

2

NAME AND EXPLAIN, A MATERIAL THAT IS SUITABLE FOR 'CLOSED LOOP RECYCLING'.

NAME:

EXPLANATION:

3

DRAW A PICTORIAL REPRESENTATION, OF THE 'CLOSED LOOP RECYCLING', OF A PET / PETE SOFT DRINKS BOTTLE.

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UPCYCLING

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1

WHAT IS 'UPCYCLING'?

2

THIS IS A SYMBOL, THAT REPRESENTS UPCYCLING.
SEARCH THE INTERNET FOR THREE MORE.
DRAW OR PASTE THEM BELOW.



3

RESEARCH "UPCYCLING". NAME AND PASTE IMAGES OF UPCYCLED PRODUCTS / MATERIALS, IN THE SPACE BELOW. ADD A SIMPLE DESCRIPTION.

SAMPLE UPCYCLED PRODUCT



Bottles upcycled into a feature in a wall.

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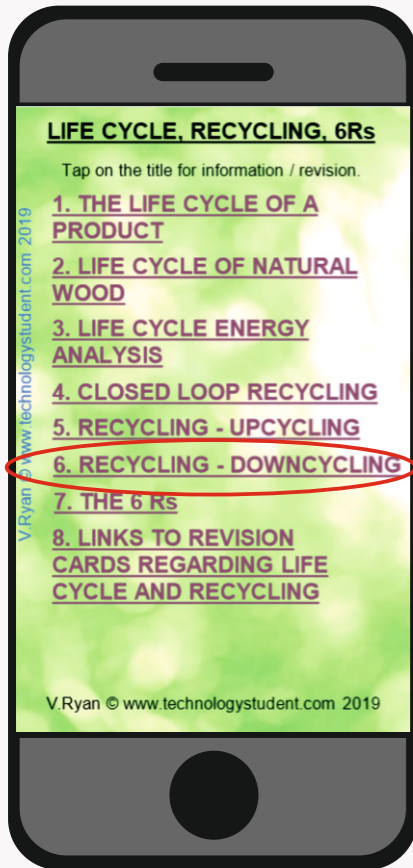
DOWNCYCLING

1

WHAT IS 'DOWNCYCLING'?

2

THIS IS A SYMBOL, THAT REPRESENTS DOWNCYCLING. SEARCH THE INTERNET FOR THREE MORE. DRAW OR PASTE THEM BELOW.



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3

RESEARCH "DOWNCYCLING". NAME AND PASTE IMAGES OF DOWNCYCLED PRODUCTS / MATERIALS, IN THE SPACE BELOW. ADD A SIMPLE DESCRIPTION.

SAMPLE DOWNCYCLED PRODUCT



Quality paper downcycled to tissue paper.

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THE 6Rs

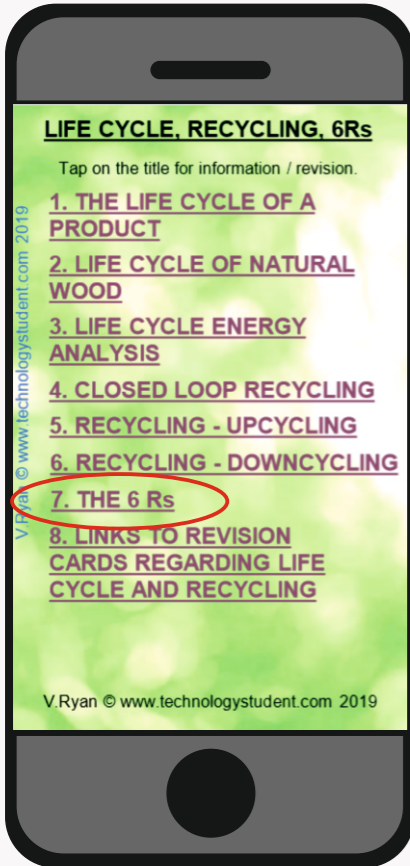
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2

WRITE THE NAMES / TITLES OF THE 6Rs, FOLLOWED BY AN EXPLANATION. ADD A SYMBOL OF YOUR DESIGN, FOR EACH 'R'. The first has been completed for you.

NAME / TITLE	DESCRIPTION	YOUR SYMBOL
1. REDUCE	Reduce the materials we use when manufacturing and in the home.	
2. R		
3. R		
4. R		
5. R		
6. R		

1

IN YOUR OPINION:
WHY IS RECYCLING MATERIALS IMPORTANT?

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