

SECTION ONE

GOOD or BAD IDEAS?

1

GOOD or BAD PRODUCT?

The World Association of Technology Teachers



GOOD:

BAD:

2

GOOD or BAD PRODUCT?

The World Association of Technology Teachers

TOASTER AND KETTLE COMBINED



GOOD:

BAD:

3

GOOD or BAD PRODUCT?

The World Association of Technology Teachers



GOOD:

BAD:

4

GOOD or BAD PRODUCT?

The World Association of Technology Teachers



GOOD:

BAD:

5

GOOD or BAD PRODUCT?

The World Association of Technology Teachers



GOOD:

BAD:

6

GOOD or BAD PRODUCT?

The World Association of Technology Teachers



GOOD:

BAD:

7

GOOD or BAD PRODUCT?

The World Association of Technology Teachers



GOOD:

BAD:

8

GOOD or BAD PRODUCT?

The World Association of Technology Teachers



GOOD:

BAD:

9

GOOD or BAD PRODUCT?

The World Association of Technology Teachers



GOOD:

BAD:

10

GOOD or BAD PRODUCT?

The World Association of Technology Teachers



GOOD:

BAD:

11

GOOD or BAD PRODUCT?

The World Association of Technology Teachers



GOOD:

BAD:

12

GOOD or BAD PRODUCT?

The World Association of Technology Teachers



GOOD:

BAD:

13

GOOD or BAD PRODUCT?

The World Association of Technology Teachers



GOOD:

BAD:

14

GOOD or BAD PRODUCT?

The World Association of Technology Teachers



GOOD:

BAD:

SECTION TWO

PRODUCT ANALYSIS AND DEVELOPMENT EXERCISES

1. RESTFUL LOUNGER

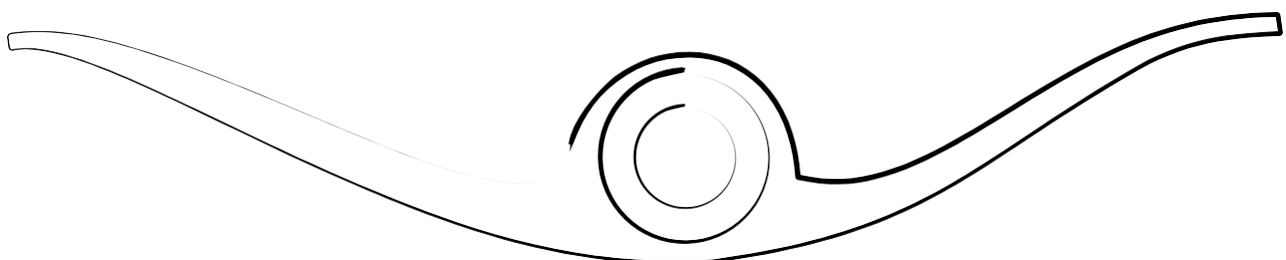


What do think about this product? Consider - ergonomics, size, materials, style and any other interesting aspects.

Sketch one or more improvements. Include labels, notes and colour / shade.

Use the back of this sheet for developing your improvements.

HELPFUL LINKS http://www.technologystudent.com/despro_fish/graphics_shade1.html
<http://www.technologystudent.com/designpro/thumbnail2.html>



2. COMPACTABLE JUG

Identify one of this products important features. Why is it an important feature?



WORLD ASSOCIATION OF TECHNOLOGY TEACHERS

<https://www.facebook.com/groups/254963448192823/>

www.technologystudent.com © 2018 V.Ryan © 2018

A basic sketch of the main body of the jug is drawn below. Add shade / colour, using the thick and thin line technique as shown on the sketch of the bottle.

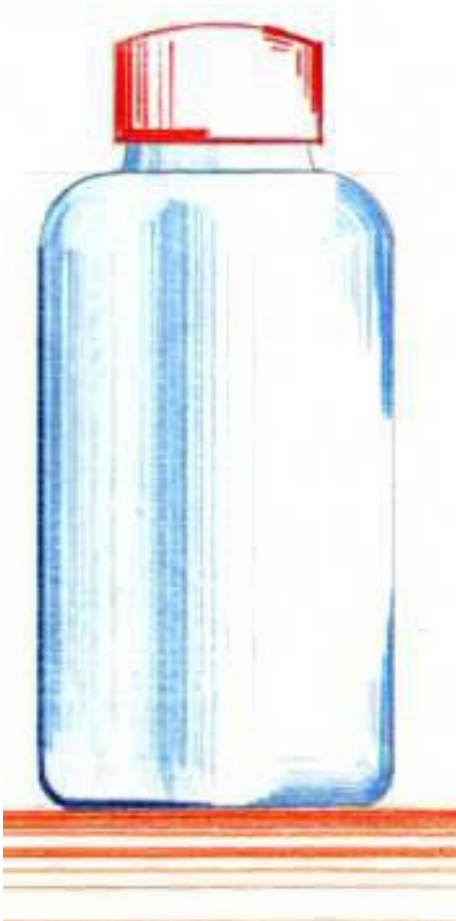
Use the back of this sheet for practising the technique.

**HELPFUL
LINKS**

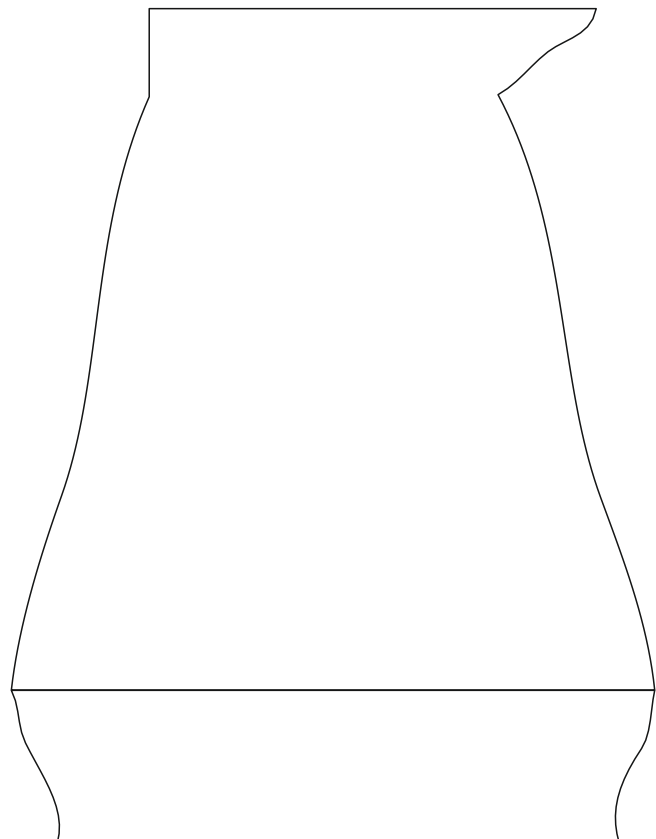
<http://www.technologystudent.com/designpro/drawtec4.htm>

<http://www.technologystudent.com/despro2/drawtec3a.htm>

SAMPLE BOTTLE



MAIN BODY OF JUG



3. CASE AND SKATE

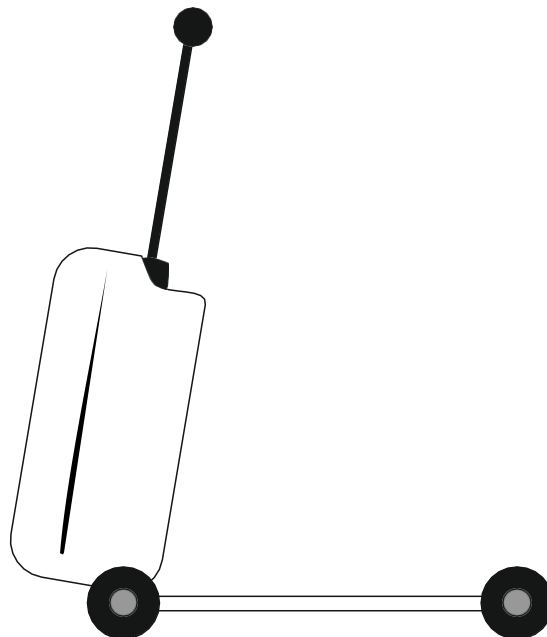


What are the positive features of this product?

A simple diagram of the case is seen below. Add an improvement / improvements. Label, include notes and add colour /shade.

Use the back of this sheet for developing your improvements.

HELPFUL LINKS http://www.technologystudent.com/despro_fish/graphics_shade1.html
<http://www.technologystudent.com/designpro/thumbnail2.html>



4. HANGERS AND CHAIR



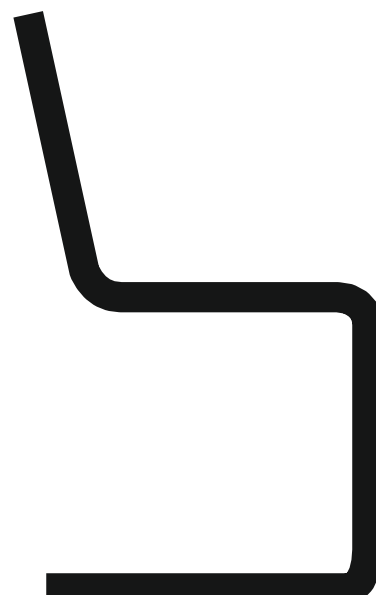
Describe a negative / positive feature of this product?

Sketching is an important skill for designers to master. You are to sketch an outline of a person sat on the chair. A sample sketch is seen below. Use *the back of this sheet* for practising your sketching skills.

SAMPLE



YOUR DRAWING



5. CUP WITH BUILT-IN ELECTRIC STIR

Is this potentially a successful commercial product? Explain your answer.



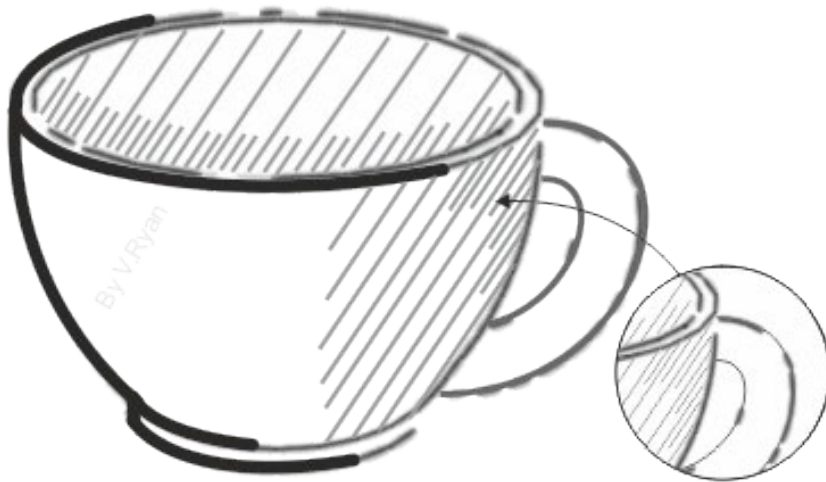
WORLD ASSOCIATION OF TECHNOLOGY TEACHERS

<https://www.facebook.com/groups/254963448192823/>

www.technologystudent.com © 2018 V.Ryan © 2018

HELPFUL LINKS

http://www.technologystudent.com/despro_fish/thickline3.html
http://www.technologystudent.com/despro_fish/thickline4.html



In this space, sketch the cup seen in the photograph above. Then, add shading (called 'hatching') in a similar style to the example opposite.

Use the back of this sheet for practising the technique.

6. USB DESKTOP VACUUM CLEANER

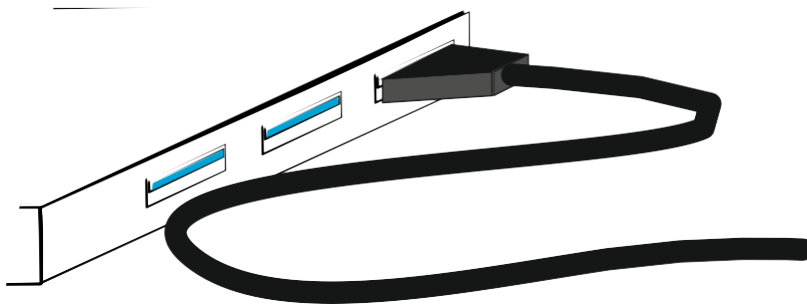
Is this a serious product or a 'fun' product? Justify your answer.



Using the incomplete diagram below, sketch an innovative device (your design), that is connected to a computer via a USB connector. Add notes and labels.

Use the back of this sheet for developing your idea.

HELPFUL LINK http://www.technologystudent.com/despro_flash/basic_dev2.html



7. PET PAW MOPS FOR CLEANING THE FLOOR

WORLD ASSOCIATION OF TECHNOLOGY TEACHERS

<https://www.facebook.com/groups/254963448192823/>

www.technologystudent.com © 2018 V.Ryan © 2018



Is this a realistic product? Explain your answer.

The manufacturer of 'pet paw mops', need a simple logo, that will be applied to the packaging. In the space below, sketch a suitable logo. Draw a rough version and a final colour rendered version.

HELPFUL LINK <http://www.technologystudent.com/despro2/symssp1.htm>

Use the back of this sheet to develop your logo

ROUGH VERSION

FINAL VERSION

--

--

8. FIVE MINUTE BREAKFAST MAKER

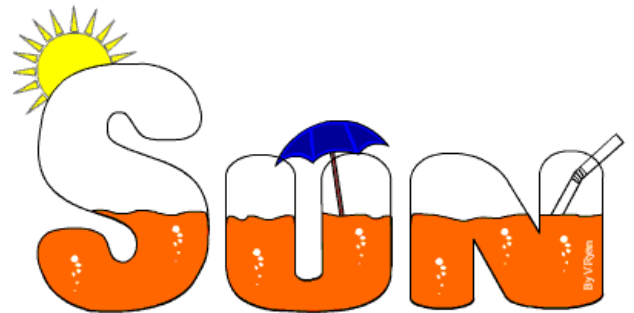


What do you like / dislike about this product?
Justify each point you make.

HELPFUL LINKS

http://www.technologystudent.com/despro_fish/theme1.html
http://www.technologystudent.com/despro_fish/theme3.html

The word 'sun' (opposite) has been stylised to reflect the meaning of the word, *the sun in the sky, holidays, lazy days and everything else that reminds us of sunny holidays.*



The 'Five Minute Breakfast' gadget has been given the name, "Fast 'n' Tasty"

On the back of this sheet, develop a style of writing suitable for the product and reflecting its use, fast breakfast, easy to make hot breakfast, bacon and eggs.....

Use the back of this sheet to develop your design.

PLAIN VERSION

FAST 'n' TASTY

SECTION THREE

PRODUCT ANALYSIS AND DEVELOPMENT EXERCISES

1. CARROT PEELER



What do you think of this product ? Is it likely to work ? Is it likely to sell in the shops?

Has the designer of this product suffered from 'design fixation' ?

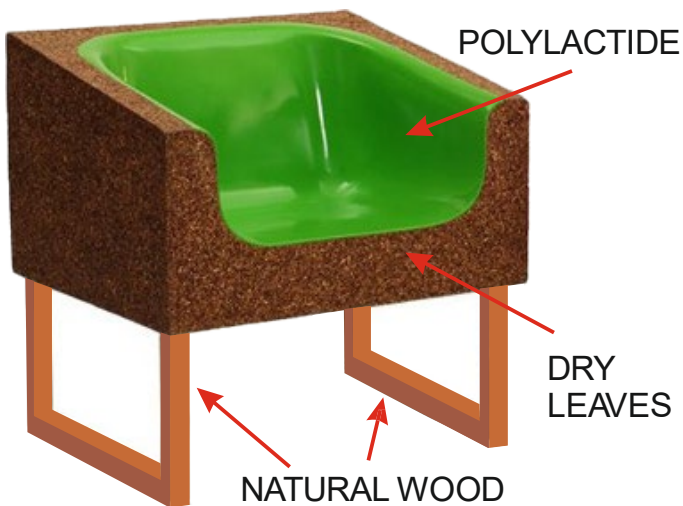
HELPFUL LINK: https://technologystudent.com/joints_flash/design_fixation1.html

Sketch a potato peeler, based on the carrot peeler shown above.

HELPFUL LINK: https://technologystudent.com/despro_flash/graphics_shade1.html

2. SUSTAINABLE CHAIR

Chair manufactured from natural wood, polylactide (PLA) and compressed dry leaves.



What do you think of this product ?

What is a sustainable natural wood?

HELPFUL LINK: <https://technologystudent.com/prddes1/susenv1.html>

Draw a diagram that describes the life cycle of polylactide

HELPFUL LINKS: <https://technologystudent.com/joints/pla1.html>
<https://technologystudent.com/joints/poly2.html>

3. USEFUL HAND WARMER

Would you be happy to be seen in the school yard, with this product ? Explain your answer.



This product is manufactured from polyethylene terephthalate, also known as PET or PETE. Why is it a good choice of material?

HELPFUL LINKS: <https://technologystudent.com/joints/pet1.html>
<https://technologystudent.com/joints/pety2.html>

In the space below, paste images of other products manufactured from PET / PETE.

4. COMBINATION KNIFE, FORK AND SPOON



What is your opinion of this product?

This product is manufactured from environmentally friendly Biopol. What is biopol?

HELPFUL LINK: <https://technologystudent.com/prddes1/biopola.html>

In the space below, sketch a combination pencil - pen (pen at one end and pencil at the other). Include shade, in the style of the sample felt pen.

HELPFUL LINK: <https://technologystudent.com/designpro/feltpen2.htm>
<https://technologystudent.com/designpro/feltpen3.htm>



5. SAFETY NAIL HOLDER



This product holds a nail while hammering it into a surface. Is it a good idea. Explain your answer.

The hammer shown in the photograph, is called a Cross Pein Hammer. What material is the handle made from? Why is it used for the handle?

HELPFUL LINK: https://technologystudent.com/equip_flash/hammers1.html

In the space below, sketch a Cross Pein Hammer.

HELPFUL LINK: https://technologystudent.com/equip_flash/hammers1.html

6. CUP HOLDER



What is your opinion of this design?

The two main parts of this product are manufactured by Injection Moulding. Using brief notes and a sketch, what is injection moulding?

HELPFUL LINK: <https://technologystudent.com/equip1/inject1.htm>

7. TOOTH PASTE SQUEEZER



Do you think that people need this product? Explain your answer

When the user 'rotates' the handle, the tooth paste tube is drawn between rollers, squeezing 'out' the remaining tooth paste. What is Rotary Motion? Include a sketch of another product, that relies on rotary motion.

HELPFUL LINK: <https://technologystudent.com/forcmom/motion1.html>

8. PAGE SEPARATOR



What do you think of this simple page separator?

Describe ONE problem with the page separator.

Sketch a new page separator, of your own design. Use the thumbnail sketching technique.

HELPFUL LINKS: https://technologystudent.com/despro_fish/thumbnail1.html
<https://technologystudent.com/designpro/thumbnail2.html>

9. SIMPLE LADDER



**In your opinion, is this ladder safe to use?
Explain your answer fully.**

It is manufactured from a polymer. Name a suitable polymer.

HELPFUL LINK: https://technologystudent.com/despro_flash/mats_plastic1.html

**The ladder is manufactured through a process called Rotary Moulding.
Using notes and a sketch, describe the process.**

HELPFUL LINK: <https://technologystudent.com/prddes1/rotate2.html>

10. ELECTRONIC MEASURING JUG



Is there a need for this electronic measuring jug? Explain your answer.

The manufacturer of this electronic measuring jug, claims it can be recycled through 'closed loop recycling'. What is closed loop recycling?

HELPFUL LINKS: <https://technologystudent.com/prddes1/closetloop1.html>
<https://technologystudent.com/prddes1/closetloop2.html>

In the space below, design your own symbol, that represents Closed Loop Recycling.