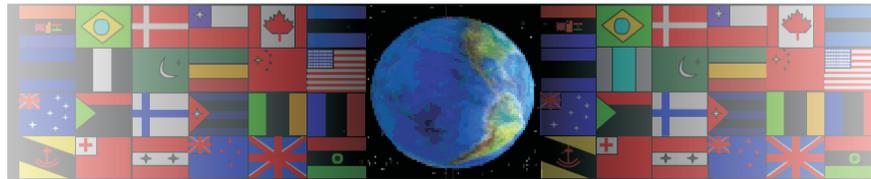


# DESIGN PROJECT TEMPLATE

V.Ryan © 2000 - 2008

On behalf of The World Association of Technology Teachers

## W.A.T.T.



World Association of Technology Teachers

Following are blank design templates. You have only finished a design project if you work through the pages that apply to your subject and type of project. This normally involves completing most of the sheets. Remember to ask your teacher for advice regarding which sheets need completing. Usually the pages are attempted in order as this will take you through the entire design process. It is recommended that you view the website section 'Design Process' ([www.technologystudent.com](http://www.technologystudent.com)) before attempting each design sheet. The website explains how the sheets can be completed and gives examples.

PROVIDED BY THE WORLD ASSOCIATION OF TECHNOLOGY  
TEACHERS

MATERIALS CAN BE PRINTED AND DISPLAYED  
THEY MUST NOT BE EDITED IN ANY WAY OR PLACED ON ANY OTHER  
MEDIA INCLUDED WEB SITES AND INTRANETS

PROJECT TITLE:

\_\_\_\_\_

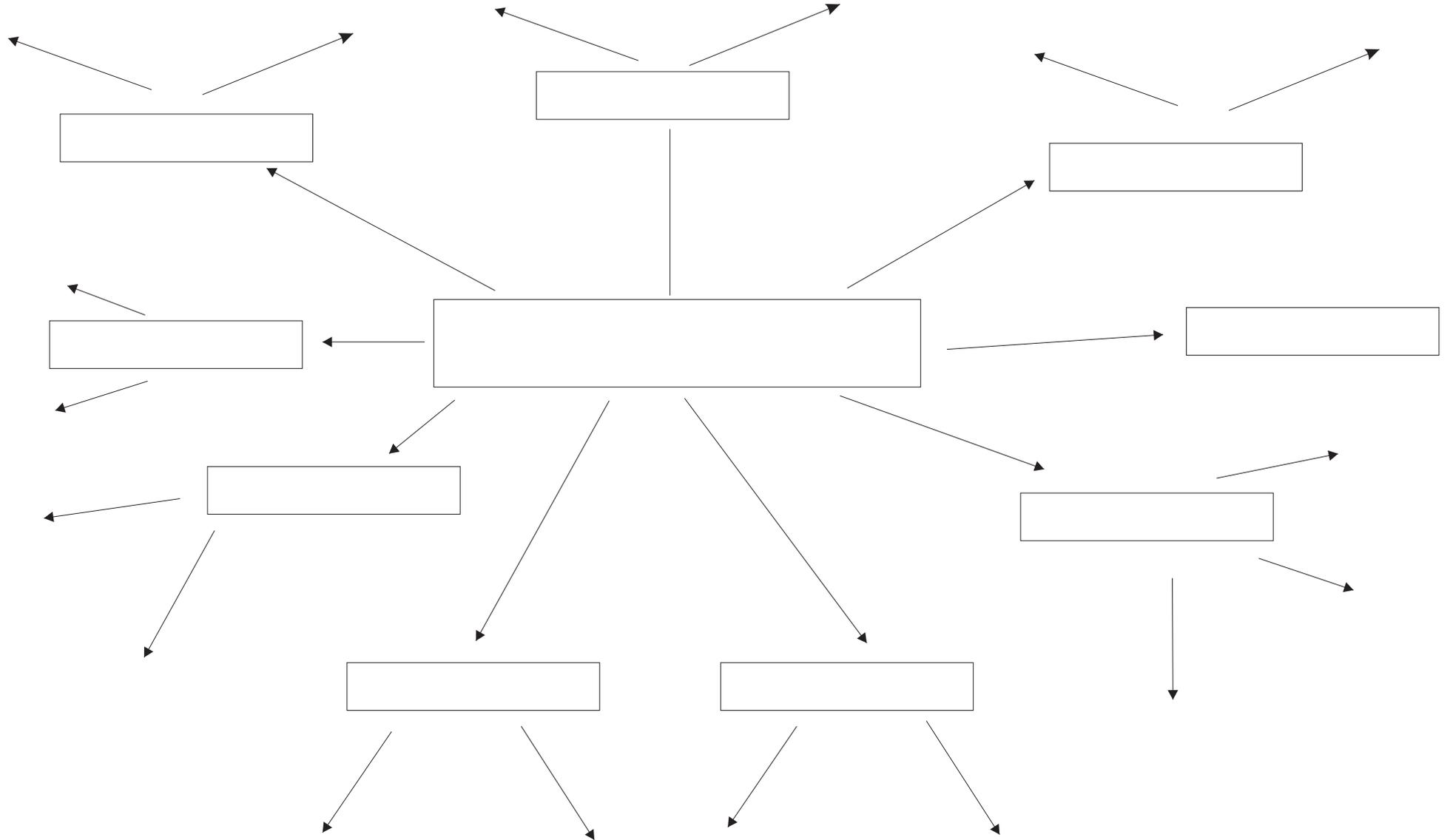
NAME: \_\_\_\_\_

SUBJECT \_\_\_\_\_

CANDIDATE NUMBER: \_\_\_\_\_

SHOWN BELOW ARE AREAS I NEED TO INVESTIGATE FOR MY PROJECT

# RICH PICTURE



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# DESIGN PROBLEM / CLIENT NEED

A large rectangular box with a double-line border, containing 25 horizontal lines for writing.

# DESIGN BRIEF

A large rectangular box with a double-line border, containing 25 horizontal lines for writing.

# ANALYSIS

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
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7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_

# SYNTHESIS

1. \_\_\_\_\_
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12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_







# RESEARCH SHEET No \_\_\_\_\_ LETTER/EMAIL TO MANUFACTURER/SUPPLIER

ON THE RIGHT IS A COPY OF MY LETTER

I SENT THE LETTER / EMAIL TO THE FOLLOWING ADDRESSES:


SUMMARY OF INFORMATION THEY SENT TO ME:


HOW I INTEND TO USE THE INFORMATION:








# RESEARCH SHEET No \_\_\_\_\_

# COLOUR SCHEMES

BELOW IS MY RESEARCH ON COLOUR SCHEMES. I MAY FIND THAT THIS WILL HELP ME DEVELOP A COLOUR SCHEME FOR MY FINAL DESIGN

1.

2.

COLOUR LEAFLET / SAMPLE










RESEARCH SHEET No \_\_\_\_\_

# INDIVIDUAL RESEARCH

AREA OF RESEARCH : \_\_\_\_\_


















# COMPUTER AIDED DESIGN SHEET No \_\_\_\_\_

# IDEAS

This sheet shows how I could use computer aided design and manufacture.

TECHNIQUE:

\_\_\_\_\_

TECHNIQUE:

\_\_\_\_\_



TECHNIQUE:

\_\_\_\_\_

TECHNIQUE:

\_\_\_\_\_



SHEET No \_\_\_\_\_

# HANDLES / LEVERS

This sheet shows a selection of handles or levers that I could use to alter the angle of my design.

HANDLE / LEVER 1:

\_\_\_\_\_

HANDLE / LEVER 2:

\_\_\_\_\_



HANDLE / LEVER 3:

\_\_\_\_\_

HANDLE / LEVER 4:

\_\_\_\_\_



# COMPUTER AIDED DESIGN SHEET No \_\_\_\_\_

# IDEAS

This sheet shows how I could use computer aided design and manufacture.

TECHNIQUE:

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TECHNIQUE:

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# DEVELOPMENT SHEET No \_\_\_\_\_

# DEVELOPMENT

BELOW IS MY BEST IDEA. I HAVE IDENTIFIED ALL THOSE ASPECTS THAT NEED DEVELOPING FURTHER.  
ON THE FOLLOWING PAGES I HAVE 'DEVELOPED' EACH OF THE ASPECTS

MY BEST IDEA - TO BE DEVELOPED



# DEVELOPMENT SHEET No \_\_\_\_\_ ASPECT - MECHANISMS

# DEVELOPMENT

HERE ARE A NUMBER OF MECHANISMS THAT MAY BE USED AS PART OF MY PROJECT

MECHANISM 1:

\_\_\_\_\_

MECHANISM 2:

\_\_\_\_\_



MECHANISM 3:

\_\_\_\_\_

MECHANISM 4:

\_\_\_\_\_



# DEVELOPMENT SHEET No \_\_\_\_\_ ASPECT - MECHANISMS

# DEVELOPMENT

HERE ARE A NUMBER OF MECHANISMS THAT MAY BE USED AS PART OF MY PROJECT

SELECTED IDEA

MECHANISM 1:



MECHANISM 2:

MECHANISM 3:



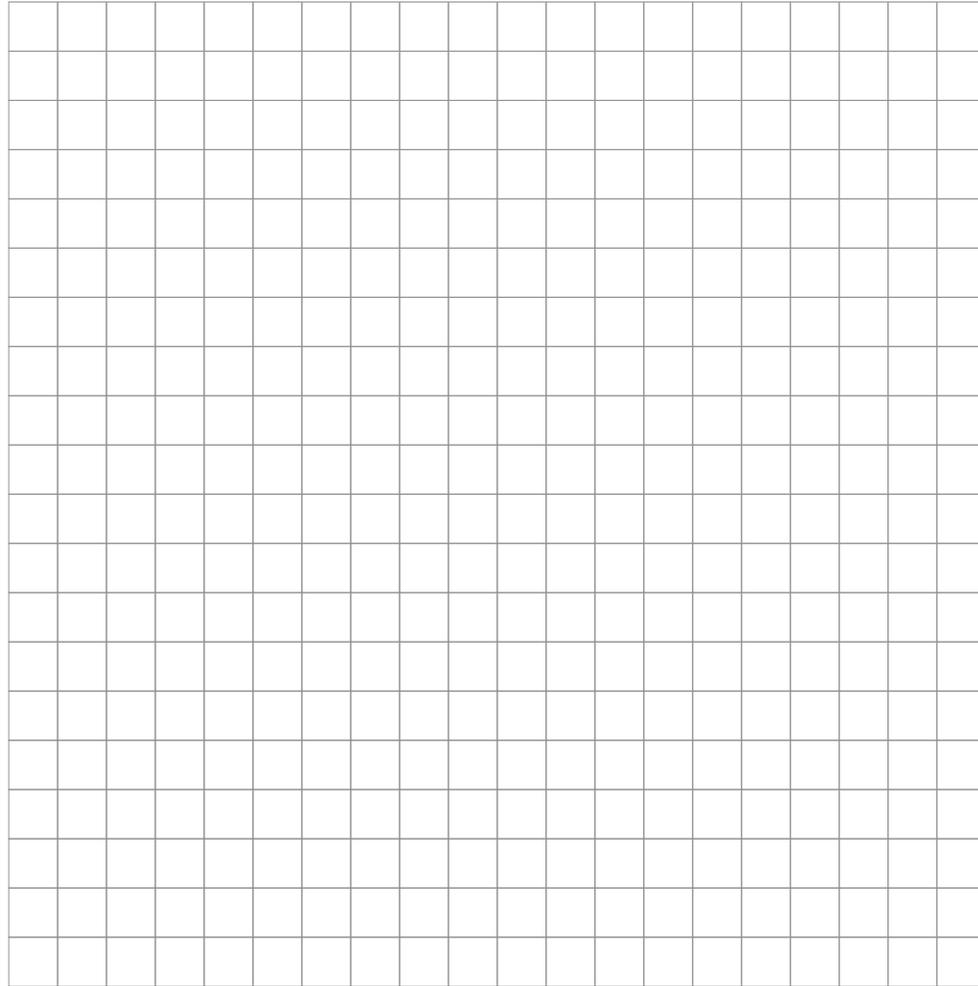
DEVELOPMENT SHEET No \_\_\_\_\_

ASPECT - PREPARATION FOR CAD

DEVELOPMENT

HERE ARE TWO HAND-DRAWN DESIGNS THAT I INTEND TO PRODUCE USING CAD SOFTWARE AND THEN MANUFACTURE USING CAM

### DESIGN ONE

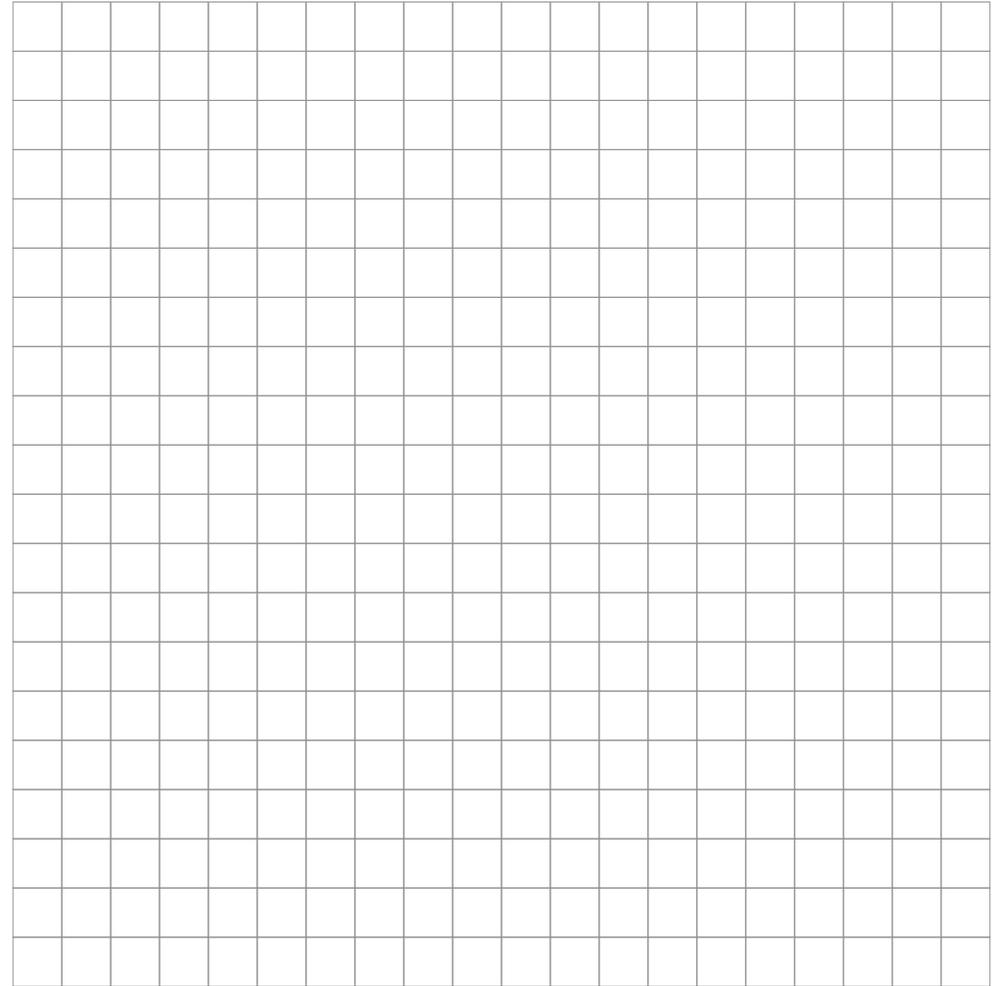


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### DESIGN TWO



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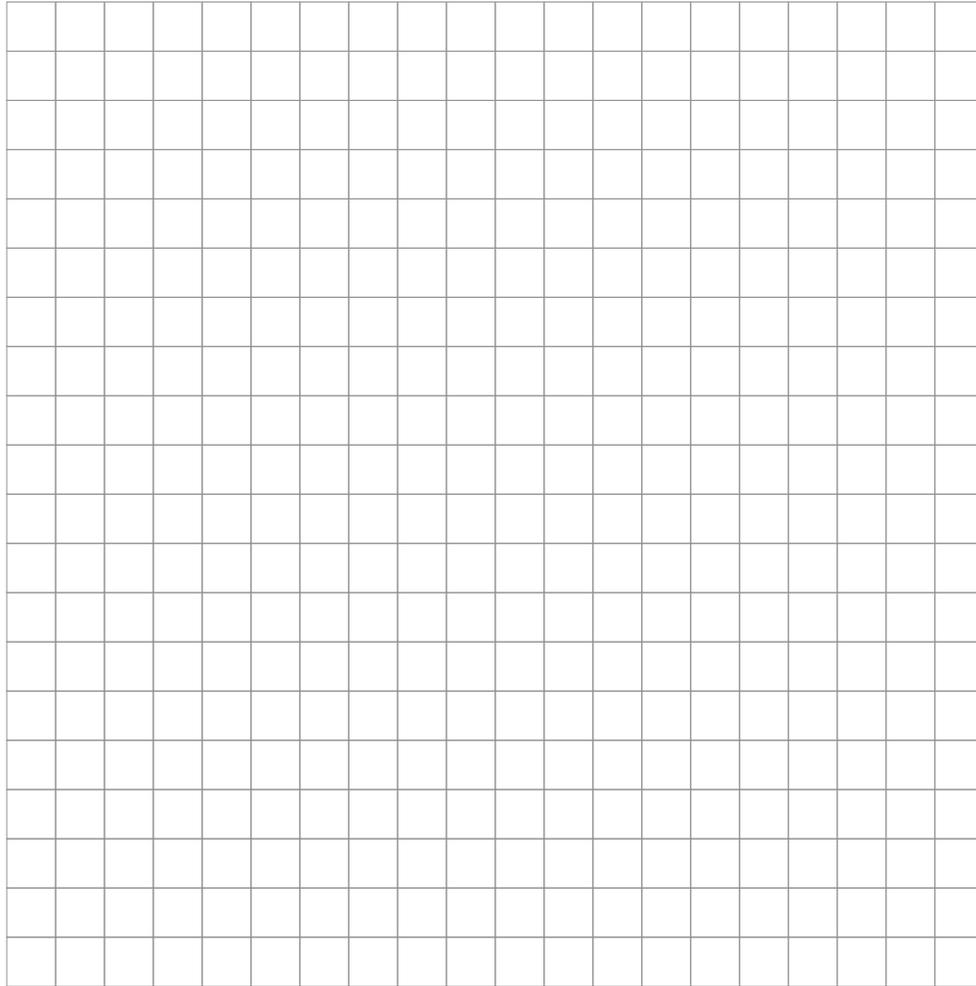
DEVELOPMENT SHEET No \_\_\_\_\_

ASPECT - Lid / Top Design

DEVELOPMENT

HERE ARE TWO HAND-DRAWN DESIGNS THAT I INTEND TO PRODUCE USING CAD SOFTWARE AND THEN MANUFACTURE USING CAM

### DESIGN ONE

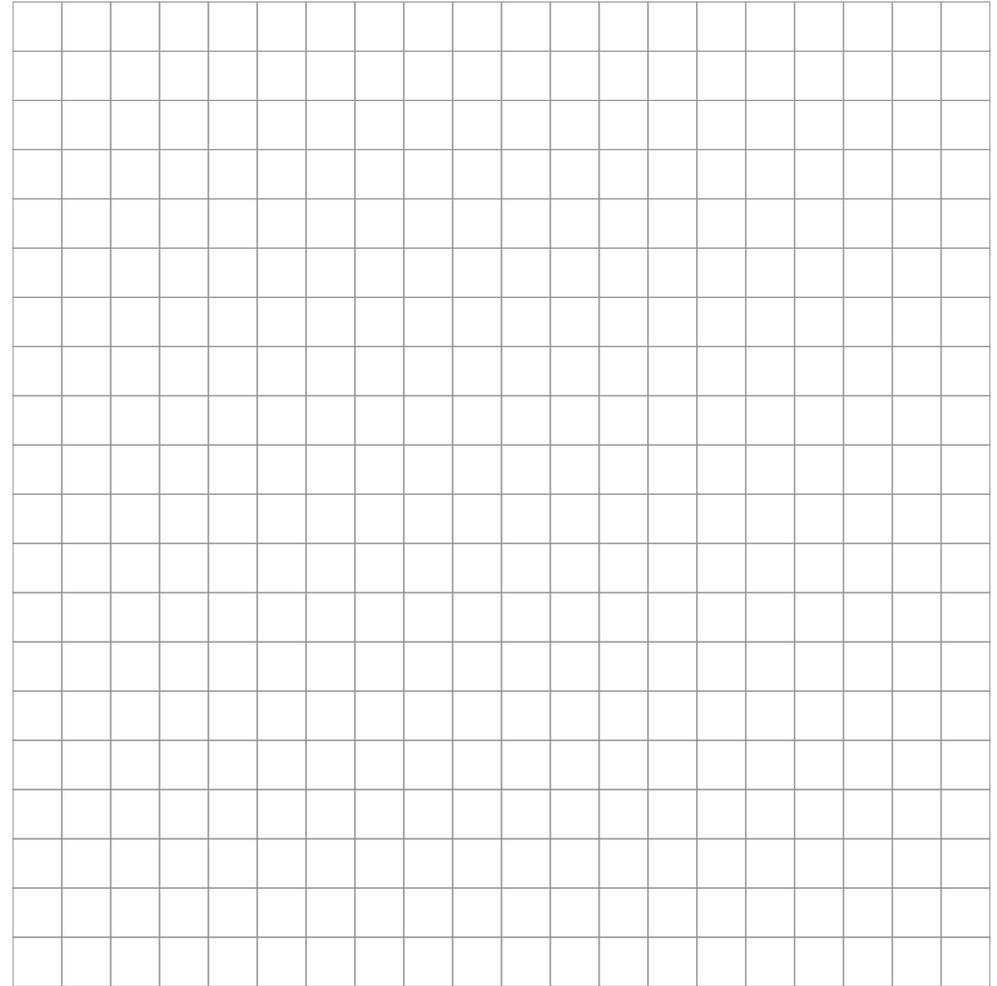


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### DESIGN TWO



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# DEVELOPMENT SHEET No \_\_\_\_\_ ASPECT - COMPUTER AIDED DESIGN DEVELOPMENT

HERE ARE MY TWO DESIGNS DRAWN USING CAD SOFTWARE

## DESIGN ONE

## DESIGN TWO

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RECYCLED PARTS / COMPONENTS:

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PRODUCT RECYCLING:

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SUSTAINABLE FORESTS:

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NON TOXIC MATERIALS:

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ENVIRONMENTALLY FRIENDLY MANUFACTURE:

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PACKAGING:

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PCB / CIRCUIT BOARD:

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SYMBOLS:

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REDUCING MATERIAL WASTE:

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ENERGY CONSUMPTION:

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ENVIRONMENTAL FACTORS - INCLUDING ELECTRONICS

**RECYCLED PARTS / COMPONENTS:**

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**PRODUCT RECYCLING:**

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**SUSTAINABLE FORESTS:**

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**NON TOXIC MATERIALS:**

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**ENVIRONMENTALLY FRIENDLY MANUFACTURE:**

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**PACKAGING:**

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**REDUCING MATERIAL WASTE:**

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**SYMBOLS:**

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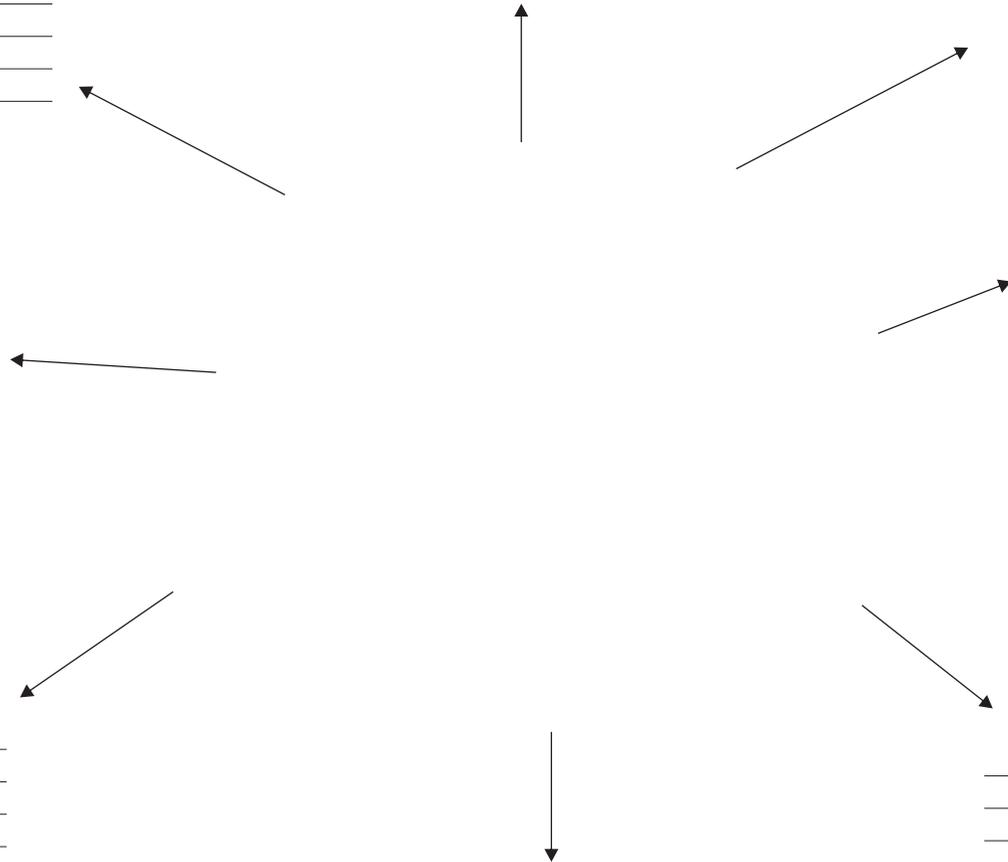
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**ENVIRONMENTAL FACTORS**







# PLANNING - USE OF TOOLS / EQUIPMENT AND MACHINERY

I intend to use the following equipment during the design and manufacture of my project.

EQUIPMENT	INTENDED USE	COST	EVALUATION
	<hr/> <hr/> <hr/> <hr/> <hr/>		<hr/> <hr/> <hr/> <hr/> <hr/>
	<hr/> <hr/> <hr/> <hr/> <hr/>		<hr/> <hr/> <hr/> <hr/> <hr/>
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6.

PHOTOGRAPH

NAME

MODEL MAKING - SEQUENCE DRAWING

DATE

# DEVELOPMENT SHEET No \_\_\_\_\_

# MODEL EVALUATION

Below is an evaluation of my model. After making and testing the model I have decided that there may be a need for alterations / changes to the original design.

## DESCRIBE POSSIBLE CHANGES TO YOUR DESIGN

## GENERAL MODEL EVALUATION

Changes to the overall shape and size:

WHAT I CONSIDER TO BE GOOD POINTS

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Changes to the materials to be used:

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Other changes. E.G. Ergonomics, colour scheme and texture, finish, appearance, function, costing etc....

VIEWS OF OTHER PEOPLE (ESPECIALLY POTENTIAL CUSTOMERS)

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# DEVELOPMENT SHEET No \_\_\_\_\_

# PRODUCTION FLOWCHART

## EQUIPMENT REQUIRED

## MANUFACTURING SEQUENCE

## QUALITY CONTROL CHECK

1

1

2

2

3

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4

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5

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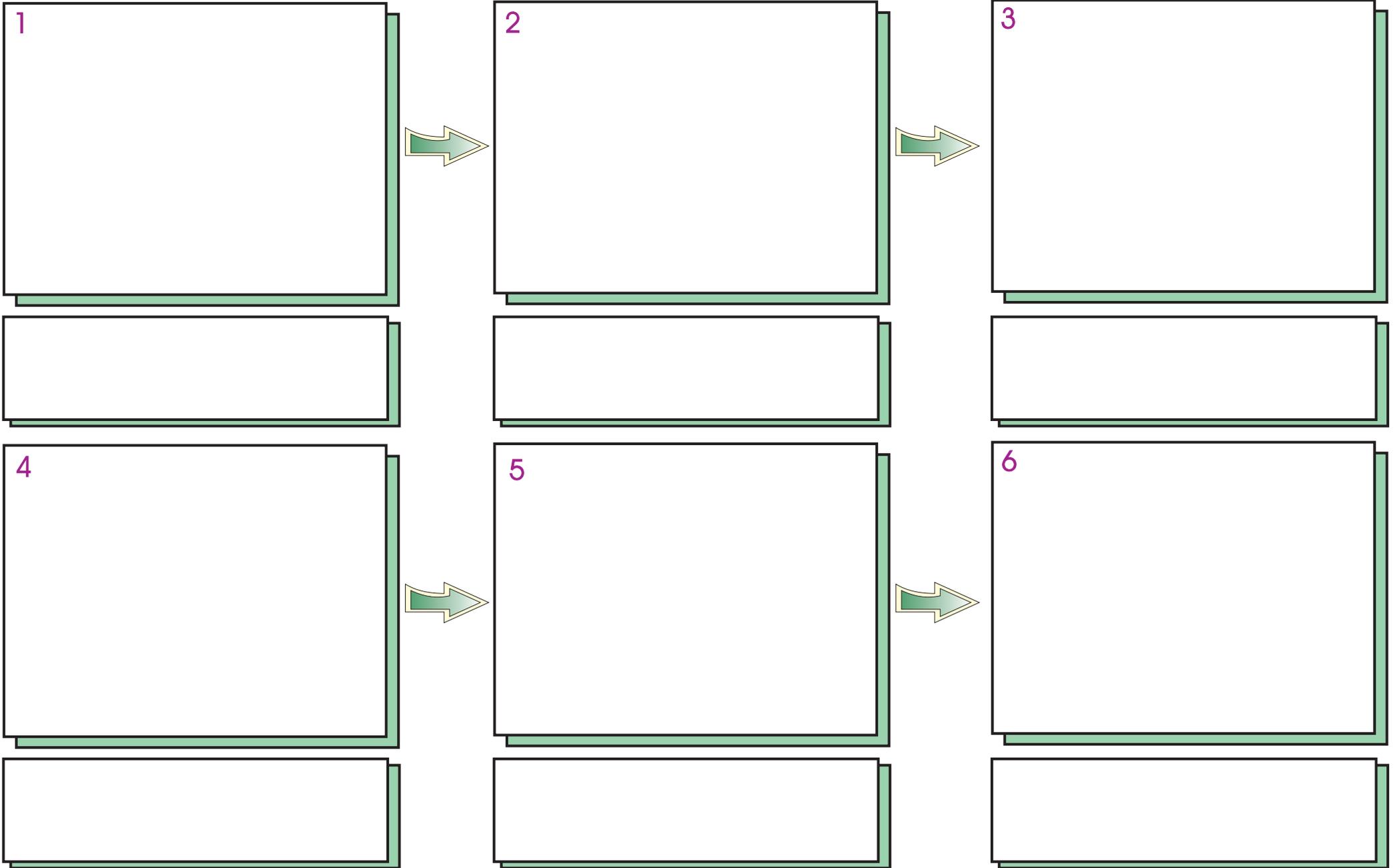
6

7

7









# THREE DIMENSIONAL DRAWING

# EXPLODED VIEW

NOTES

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NOTES

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NAME

EVALUATION

DATE

# THE SOLUTION

# WORKING DRAWING

BASE LINE

PART No	No OFF	DESCRIPTION	MATERIAL	DIMENSIONS	FINISH
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

