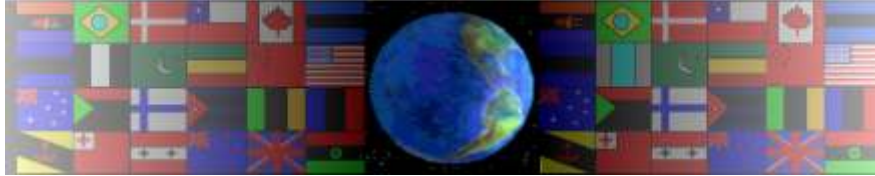


# ANALYSIS EXERCISE

V.Ryan © 2000 - 2009

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](http://www.technologystudent.com)) before attempting the design sheet .

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# ANALYSIS EXERCISE

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Below are a number of analysis questions. Underneath each question, write it in your own words. Substitute the words, 'product' and 'solution' etc... with the name / description of your project.

-----  
What is the best shape for the solution ?

-----  
What 'ergonomic' factors need to be taken into account ?

-----  
Who is going to buy my product ? What is the age group ?

-----  
How long will the product take to manufacture ?

-----  
Where can I collect research material to help me design ?

-----  
What are the functions of the product ?

-----  
What special features need to be built into the designs ?

-----  
What equipment and machinery will I need for manufacture ?

-----  
What colour scheme will be most appropriate ?

-----  
What materials are available ? What materials will be the most suitable?

-----  
Will the design be safe ?

-----  
How will the product be mass produced ? On a production line ? What will the cost of 'labour' be ?

-----  
What type of circuit is required ? Is a timer required ? Are flashing lights needed ?

-----  
Is my solution likely to solve the design problem ?

-----  
What are the addresses of manufacturers and suppliers who may help me design my product ?

-----  
What designs already exist ? What do you think of them ? Could they be improved ?

-----  
What will be the overall size ?  
-----

# ANALYSIS EXERCISE

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In the space below, write questions that only apply to your project. For instance, if you are designing an automatic animal feeder you will probably include a question that refers to the type/size of animal the device will be built for.

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