



ORANGE HIGH SCHOOL

ASSESSMENT TASK NOTIFICATION

Subject	Mandatory Timber Technology
Topic	Engineered Systems - Lolly Machine
Class Teacher	A Bright, D Boundy, J Lindsay, N Nealon
Head Teacher	D Wait
Year	7 & 8
Date Given	
Date Due	Task 3
Weighting	

NOTE: A majority of these assessment task parts will be completed using class time.

Students studying Technology Mandatory Industrial Arts will be assessed on their ongoing practical work along with an accompanying Design Folio. Students will be provided with time in class to complete these components, however any work missed or not finished within the set time is required to be completed at home.

Part 1. Project Folio.

1. Project Ideas- Collect a range of different lolly machine images (minimum 5)
2. Complete 3 sketches of ideas. These are to be labeled or have a written description.
3. Drawings and photos of cardboard prototypes. These need to be evaluated.
4. Scale drawing of selected final design that includes measurements
5. A cutting list of the components of your design
6. A Gantt Chart outlining the activities to complete your design both proposed and actual.
7. A construction procedure.

Part 2. Project- you are required to make your project.

- You are required to construct your own personal Lolly Machine Project in class. Your Lolly Machine must have a simple machine. You will be assessed on the following
 - Correctly measuring and cutting timber as per your cutting list.
 - Assembling timber products.
 - Applying finishes to woodworking projects.
 - Ability to work independently and as part of a team.

Part 3. Evaluation- To evaluate your project you need to complete the following.

1. 3 things you learnt whilst completing your project.
2. 3 things you would do differently next time.
3. 3 problems you encountered and how you overcame these problems during the construction of your Lolly Machine..
4. What new skills you have learnt.
5. 3 positive and negative points about your project.
6. 3 things you can improve on.

Non-completion of Task:

If you know you are going to be away on the day that the task is due, you must make alternative arrangements with your teacher beforehand. If you are suddenly away on the day that the task is due, you must contact your teacher or Head Teacher on your return to school. Documentation will be required in both classes.

Plagiarism:

Plagiarism, the using of the work of others without acknowledgement will incur serious penalties and may result in zero award. Any cheating will also incur penalties.

Failure to follow the above procedures may result in a zero award.

The policies and procedures that are outlined on the ROSA booklet will be followed regarding the non-completion of assessment tasks.

Outcomes Assessed

TE4-8EN Explains how force, motion and energy are used in engineered systems.

TE4-1DP Designs, communicates and evaluates innovative ideas and creative solutions to authentic problems or opportunities.

TE4-2DP Plans and manages the production of designed solutions.

MARKING CRITERIA

<u>Outstanding</u> <u>(12-10)</u>	<u>High</u> <u>9-7</u>	<u>Sound</u> <u>6-4</u>	<u>Basic</u> <u>3-2</u>	<u>Limited</u> <u>1-0</u>
<p>Outcome: - TE4 -8EN- Explains how force and motion and energy are used in Engineered Systems (mechanization involving simple machines)</p> <p>TE4-1DP – Designs and communicates and evaluates innovative ideas and creative solutions to authentic problems</p> <p>Task 1: Project Folio.</p> <ol style="list-style-type: none"> 1. Students investigate how the principles of simple machines can be applied to harness force, motion and energy to generate movement in at least 3 simple automated processes. 2. Students generate ideas for 3 Lolly Machine designs that utilised at least 1 simple machine in each and record their concept sketches, develop working plans. Students collate all the information from a and b above into an online folio on Google Drive or OneNote- shared with teacher 				

A 12-10	<ul style="list-style-type: none"> ● Outstanding collection of Lolly Machine designs (5) 3 sketches are explained with extensive detail. ● Outstanding prototypes (2) that successfully test lolly machine components. Detailed evaluation of prototype designs. ● Outstanding scaled drawing with measurements. ● Outstanding cutting list listing all components with accurate sizes. ● Outstanding procedure, clear and detailed steps, with tools equipment included
B 9-7	<ul style="list-style-type: none"> ● Excellent collection of Lolly Machine designs (4) 3 sketches are explained with detail. ● Excellent prototypes (2) that successfully test lolly machine components. Clear evaluation of prototype designs. ● Excellent scaled drawing (mostly accurate) with measurements ● Excellent cutting list listing all components with sizes. ● Excellent procedures, clear and detailed, all tools included
C 6-4	<ul style="list-style-type: none"> ● Sound collection of Lolly Machine designs (3) 3 sketches with sound explanation/labeling. ● Sound prototype (1) that test lolly machine components. Sound evaluation of prototype design. ● Sound scaled drawing (mostly accurate) with most measurements ● Sound cutting list listing most components with sizes. ● Sound procedure, most steps, tools included
D 3-2	<ul style="list-style-type: none"> ● Basic collection of Lolly machine designs (2) 2 sketches or 3 incomplete. Basic explanation/labeling of components. ● Basic prototype (1) that attempted to test lolly machine components. Basic evaluation of prototype design. ● Basic drawing with some measurements ● Basic cutting list listing most components with some sizes. ● Basic procedure, missing a majority of steps, images and tools
E 1-0	<ul style="list-style-type: none"> ● No lolly machine collage. Very basic sketches. Incomplete, not labelled or incorrectly labelled. ● Limited prototype that is incomplete and unable to test lolly machine components. No evaluation of prototype. ● No drawings submitted. ● Cutting list not attempted. ● Procedure not attempted.

<u>Outstanding</u> 18-15	<u>High</u> 14-11	<u>Sound</u> 10 - 7	<u>Basic</u> 6-3	<u>Limited</u> 2-0
Outcome: - TE4 -2DP- PRACTICAL TIMBER LOLLY MACHINE				
Part 2 and 3: Students are producing the practical component of their Lolly Machine and Evaluating the final product.				

A 15-12	<ul style="list-style-type: none"> ● A complex mechanical element, utilising at least 1 simple machine to allow lollies to pass freely through the machine and exit into catchment. ● Outstanding construction of final design with limited assistance from the teacher. ● Outstanding finish applied to project- neat, clean and tidy. No pencil marks, no split timber and no nails exposed. ● Finished project clearly meets all aspect of the design brief. ● All evaluation questions answered in sufficient detail with correct spelling, punctuation and easy to read.
B 11-9	<ul style="list-style-type: none"> ● A complex mechanical element, utilising at least 1 simple machine to allow lollies to pass freely through the machine and exit into catchment. ● Excellent construction of final design with minor assistance from teacher. ● Excellent finish applied to project- neat and tidy. Minor pencil marks, no split timber and no nails exposed. ● Finished project clearly meets all aspects of the design brief. ● 1 or 2 evaluation questions missed most answered in sufficient detail with very little punctuation and spelling mistakes.
C 8-6	<ul style="list-style-type: none"> ● A sound mechanical element, utilising at least 1 simple machine, lollies to pass though the machine and exit into catchment. ● Sound construction of final design with assistance from the teacher. ● Sound finish applied to project- neat and tidy. Pencil marks, minor split timber and possibly some nails exposed. ● Finished project meets the design brief. ● 3 or 4 evaluation questions unanswered and no more than 3 spelling or punctuation mistakes.
D 5-3	<ul style="list-style-type: none"> ● A basic mechanical element, lollies to pass slowly though the machine and do not exit into catchment. ● Basic construction of final design with regular assistance from the teacher. ● Basic finish applied to project- unfinished, pencil marks, minor split timber and possibly some nails exposed. ● Finished project meets the design brief. ● Evaluation incomplete very brief and more than 4 spelling mistakes.
E 2-0	<ul style="list-style-type: none"> ● Project incomplete- not all components have been attached to machine, lollies cannot pass through the machine. . ● Evaluation incomplete.

Evaluation

3	<ul style="list-style-type: none"> ● All evaluation questions answered in sufficient detail with correct spelling, punctuation and easy to read.
2	<ul style="list-style-type: none"> ● 3 or 4 evaluation questions unanswered and no more than 3 spelling or punctuation mistakes.
1	<ul style="list-style-type: none"> ● Evaluation very brief, only 2 questions attempted and more than 5 spelling mistakes.
0	<ul style="list-style-type: none"> ● Evaluation incomplete.