




TOM NEWBY SCHOOL EXAMINATION MEMORANDUM

Subject	Technology	Examiner	Mrs Fourie
Date	15 November 2018	Total marks	60
Grade	7	Duration	1 ½ hours
		Moderator	Miss Mpesu
Special instructions/ Equipment			
This assessment has been compiled using notes and information contained in the Tom Newby School resource material. The marking memorandum has been compiled accordingly. While alternative responses will be given due acknowledgement, the official memorandum will be considered a priority document to ensure uniformity of marking.			

QUESTION	ANSWER	MARK	LEVEL
1	Match the columns. Match Column A with the answers in Column B. 1. D ✓ 2. F ✓ 3. C ✓ 4. A ✓ 5. B ✓ 6. E ✓	6	1
2	Multiple Choice: Choose the correct answer from the statements below and only write down the correct letter, next to the number. 1. C ✓ 2. D ✓ 3. A ✓ 4. D ✓ 5. B ✓	5	1
3	Identify the images below. Name them and give an explanation of where they are used / how they work. 1. A wooden garden bench. It is a solid structure that we use to sit and relax on. ✓ 2. A pedal of a tricycle. The pedal and the crankshaft rotate or circulate and the tricycle moves back and forth. ✓ 3. A horseshoe magnet. It has a North and South pole and attracts or repels objects. ✓	3	1
4	Fill in the missing word/s: 1. canvas tarpaulin ✓ 2. Mildew ✓ 3. thatched ✓ 4. preserve ✓ 5. resources and wants ✓✓ 6. scale ✓ 7. Natural ✓ 8. Asylum ✓	9	1 / 2

5	<p>Section B: Recycling. Answer the questions:</p> <ol style="list-style-type: none"> 1. It is an excellent way to save waste products and make the materials re-usable. ✓✓ 2. 16 % of the money you spend on a product pays for e packaging. ✓ 3. Up to 80 % of a motor vehicle can be recycled. ✓ 4. A first class lever is a simple machine or mechanism and examples are: pair of scissors, a stapler, a pair of tweezers and a wheelbarrow ✓✓ 5. A Jaws-of-life is a rescue system that cuts open the wreckage of a vehicle on an accident scene, when people or passengers are trapped. It is used by rescue workers and /or firemen ✓✓ 6. Paper, plastic, glass or cans. Name any two. ✓✓ 	10	2 / 3															
6	<p>Design brief and sketch: Design and draw a waterproof shelter with the materials available.</p> <ol style="list-style-type: none"> 1. I am going to make a waterproof shelter using (mention materials). ✓✓ 2. Specifications: The shelter will be for? ✓ 3. Appearance and dimensions, shape, colour, size. ✓✓ 4. Safety and cost? ✓ 5. Constraints: Limited resources, time constraints, lack of skills, etc. ✓✓✓ <p>Use the given rubric for giving marks for the sketch of a waterproof shelter. Possible mark is 7.</p> <table border="1" data-bbox="331 1384 1018 2042"> <thead> <tr> <th data-bbox="331 1384 539 1458">SKILL</th> <th data-bbox="539 1384 820 1458">DESCRIPTION</th> <th data-bbox="820 1384 1018 1458">POSSIBLE MARKS</th> </tr> </thead> <tbody> <tr> <td data-bbox="331 1458 539 1682">A 3-D Oblique projection of a waterproof shelter.</td> <td data-bbox="539 1458 820 1682">a) Is it a solution to the problem?</td> <td data-bbox="820 1458 1018 1682">1</td> </tr> <tr> <td data-bbox="331 1682 539 1827"></td> <td data-bbox="539 1682 820 1827">b) Is it a perspective drawing?</td> <td data-bbox="820 1682 1018 1827">2</td> </tr> <tr> <td data-bbox="331 1827 539 1973"></td> <td data-bbox="539 1827 820 1973">c) Have correct measurements been given?</td> <td data-bbox="820 1827 1018 1973">2</td> </tr> <tr> <td data-bbox="331 1973 539 2042"></td> <td data-bbox="539 1973 820 2042">d) Is it labelled and have</td> <td data-bbox="820 1973 1018 2042">2</td> </tr> </tbody> </table>	SKILL	DESCRIPTION	POSSIBLE MARKS	A 3-D Oblique projection of a waterproof shelter.	a) Is it a solution to the problem?	1		b) Is it a perspective drawing?	2		c) Have correct measurements been given?	2		d) Is it labelled and have	2	10	2 / 3
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		colours been used?		
			TOTAL: 7	
7	Short answers and explanations:	11	1 to 3 mixed questions.	
	<p>1. A pulley is a mechanical system consisting of wheels turning on axles and driven by a chain, cable or rope. Pulleys are used for moving loads up and down. ✓✓</p> <p>2. Hydraulic systems uses a fluid like oil or water to drive machinery. ✓</p> <p>3. Labels for parts of a crane: Jib, counterweight, rotex gear. Give the labels boom and pulley on the paper. ✓✓✓</p>  <p>4. Cranes are used to move heavy loads vertically and or horizontally. ✓</p> <p>5. Tastifeed is a food paste made of peanuts, it contains calories and vitamins specifically manufactured to re-nourish starving children. ✓✓</p> <p>6. National Sea Rescue Institute. They provide emergency services in the waters/ seas of South Africa. ✓✓</p> <p>7. A bulletproof vest worn by police officers or security guards is made of a material called Kevlar. ✓</p>			
	Total: 60 marks			