



TOM NEWBY SCHOOL TERM 4 TEST
MEMORANDUM

Subject	Technology	Examiner	Mrs Fourie
Date	November 2021	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	Section A: Multiple choice: Choose the correct answer from the statements below and only write down the correct letter, next to the number. 1.1 a ✓ 1.2. b ✓ 1.3. c ✓ 1.4. c ✓ 1.5. b ✓ 1.6 a ✓	6	1
2	Match the columns: Match Column A with the answers in Column B. 2.1. D ✓ 2.2. C ✓ 2.3. F ✓ 2.4. A ✓ 2.5. E ✓ 2.6. B ✓	6	1
3	Identify the images below and give your own explanation of what it is and where it is used or what it is used for or where we would find it. 3.1. It is an electromagnet. An <i>electromagnet</i> is a type of magnet in which the flow of electric current produces a magnetic field. The magnetic field disappears when the current is turned off and electromagnets are used in factories or industrial sites. ✓ ✓ 3.2 The NSRI is the National Sea Rescue Institute where workers save people from drowning in the oceans. ✓ ✓ 3.3 It is a sliding glass door. It shows us movement in one, linear, direction. ✓ ✓	6	2
4	Section B: True or False: 4.1. False ✓ .Permanent magnet ✓ 4.2. False. ✓ It is the Basotho and Batswana farmers ✓	10	1 / 2

	<p>4.3. True ✓ Packaging is 16 % ✓</p> <p>4.4. True. ✓ They are landfill sites ✓</p> <p>4.5 False. ✓ It is a crank ✓</p>																
5	<p>Any possible drawing of a shelter, including labels. Check the rubric. (10) ✓</p> <table border="1"> <thead> <tr> <th>Rubric: Sketch of a temporary shelter</th> <th>Possible mark (10)</th> </tr> </thead> <tbody> <tr> <td>Wrote an interesting heading for the model shelter</td> <td>1 ✓</td> </tr> <tr> <td>Started with the front / side view and added something in 3 D</td> <td>2 ✓ ✓</td> </tr> <tr> <td>Indicated the real measurements and enough labels</td> <td>2 ✓ ✓</td> </tr> <tr> <td>Used dark outlines and other types of lines</td> <td>2 ✓ ✓</td> </tr> <tr> <td>Made use of different colours and showed the materials</td> <td>2 ✓ ✓</td> </tr> <tr> <td>Neatness of drawing.</td> <td>1 ✓</td> </tr> </tbody> </table> <p>Write a design brief mentioning what we are designing, specifications and constraints. (10)</p> <p>5.2.1 I must design a temporary shelter to help people who have lost their homes or are temporary displaced. ✓ ✓</p> <p>5.2.2 a) It needs to be waterproof or rain proof. ✓ b) It must be cost-effective to make. ✓ c) It needs to be strong and sturdy. ✓ Or d) It should have at least one strengthening technique.</p> <p>Any materials or tools that they want to add, will also be acceptable.</p> <p>5.2.3 a) It could fall over and not be strong enough to hold its shape. ✓ b) The materials I use might be too soft or too flimsy or not waterproof or fireproof. ✓ c) My shelter might not be dry after I have painted it. This can be any reason of what could go wrong when building the shelter ✓</p> <p>5.2.4 a) Xenophobic attacks ✓ b) Riots ✓ Flooding, heavy rains, heavy winds. Any acceptable reason.</p>	Rubric: Sketch of a temporary shelter	Possible mark (10)	Wrote an interesting heading for the model shelter	1 ✓	Started with the front / side view and added something in 3 D	2 ✓ ✓	Indicated the real measurements and enough labels	2 ✓ ✓	Used dark outlines and other types of lines	2 ✓ ✓	Made use of different colours and showed the materials	2 ✓ ✓	Neatness of drawing.	1 ✓	20	2 / 3
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6	<p>Section C</p> <p>6.1.1 a) Cover with waterproofing material such as rubber, PVC or wax. ✓ ✓ b) Fabric -spray with a waterproofing substance. ✓</p> <p>6.1.2 Spray low density fibers / compounds directly on materials. ✓</p> <p>6.1.3 a) Tastifeed is a food paste made of peanuts. It contains calories and vitamins specially manufactured to re-nourish starving children. ✓ b) It is a little foil packet filled with a soft sticky substance and can be stored for 24 months. ✓</p>	12	2 / 3														

	<p>c) Peanuts Vegetable oil Powdered milk Sugar Vitamins and minerals (Any 2 mentioned) ✓ ✓</p> <p>d) Malnutrition or Starvation ✓</p> <p>e) Malnutrition kills 5000 children per year, which means one child every 6 seconds. Because they can't get the protein, vitamins and minerals that their young bodies need/ lack of proper nutrition, caused by not having enough of the right things to eat. ✓</p> <p>f) It is mainly used in the poorer countries, e.g. Ethiopia, Somalia, Sudan and it is used by the MSF, also called the Doctors without borders. ✓ ✓</p>		
	Total: 60 marks		

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