



**TOM NEWBY SCHOOL
GRADE 7 TECHNOLOGY
JUNE 2022 MEMORANDUM**



QUESTION	ANSWERS	MARKS	LEVEL
QUESTION 1	1.1 B ✓ 1.2 A ✓ 1.3 A ✓ 1.4 C ✓ 1.5 B ✓ 1.6 C ✓	6	1
QUESTION 2	2.1 F ✓ 2.2 A ✓ 2.3 E ✓ 2.4 B ✓ 2.5 D ✓	5	1
QUESTION 3	3.1 A soccer ball ^{1/2} ✓ Solid and shell ^{1/2} ✓ B. Bicycle ^{1/2} ✓ and frame ^{1/2} ✓ C. A brick house ^{1/2} ✓ and solid ^{1/2} ✓ D. An aeroplane ^{1/2} ✓ and frame and solid ^{1/2} ✓ 3.2 A structure is something that is built , ✓ made or put together in a particular way. It can be a strong material and can support loads. 3.3 A ice hockey stick is an example of a third class lever ✓ and a pair of scissors is an example of a first class lever. ✓	10	2

<p>QUESTION 4</p>	<p>4.1 Too many people have accidents. ✓ People lose their lives because of accidents. ✓</p> <p>4.2 1 It can get passengers out of trapped vehicles. ✓</p> <p>4.2.2 It can save lives. Pneumatics or pneumatic systems are machines that are compressed air or gas. The air in pneumatic systems is compressed with a pump, e.g. a bicycle pump.</p> <p>4.3.1 Fire fighters ✓</p> <p>4.3.2 Paramedics ✓</p> <p>4.4 Pneumatics or pneumatic systems are machines that are compressed air or gas. The air in pneumatic systems is compressed with a pump, e.g. a bicycle pump. ✓ ✓</p> <p>4.5 Hydraulic systems use liquids such as oil and water, to work machinery. On any construction site or repair centre you will see hydraulically worked machinery in the form of bulldozers, front-end loaders, forklifts and a car lift. ✓</p>	<p>9</p>	<p>3</p>
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<p>QUESTION 5:</p>	<p>Design process: 5. I am making a cell phone tower It must be disguised as something else. (Any possible answer)✓✓</p> <p>5.2 Ice-cream sticks, foil, cardboard, wood, plastic straws, paint✓✓✓ (Any 3 materials mentioned)</p> <p>5.3 It needs to have a pointing tower that can accept signals and it should be tied down with a cable stay or a cable tie and it should be able to carry a heavy load. It should be environmentally friendly. It should be sturdy and strong. It should have a wide base or a smaller base. (Any acceptable answer)✓✓</p> <p>55. It should not topple over or fall down easily. It must not be unstable. The paint might not dry on time. The tower might fall over. ✓✓</p>	<p>11</p>	<p>3</p>								
<p>QUESTION 6</p>	<p>✓ Check the rubric</p> <table border="1" data-bbox="496 1323 1078 1659"> <tr> <td>Used grey pencil for the drawing and wrote an interesting heading. ✓ ✓</td> <td>2</td> </tr> <tr> <td>“Front, side or top” view shown. ✓</td> <td>1</td> </tr> <tr> <td>Used different types of lines in sketch. ✓</td> <td>3</td> </tr> <tr> <td>Added materials, tools and measurements. ✓ ✓</td> <td>4</td> </tr> </table>	Used grey pencil for the drawing and wrote an interesting heading. ✓ ✓	2	“Front, side or top” view shown. ✓	1	Used different types of lines in sketch. ✓	3	Added materials, tools and measurements. ✓ ✓	4	<p>10</p>	<p>2</p>
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<p>QUESTION 7</p>	<p>7.1 MTN, Vodacom, Cell C, Telkom or any one mentioned. ✓</p> <p>7.2 Gallery, whatsapp, facebook, camera, maps, google, calendar, gmail, email, play store, youtube, spotify, Instagram, Tik tok messenger or any 3 apps mentioned. ✓✓✓</p>	<p>12</p>	<p>3</p>								

	<p>7.3. When we make overseas calls, both parties are allowing roaming to take place. Roaming permits the same phone to be used in various countries. We can use whatsapp calls, video calls and skype . ✓✓</p> <p>7.4</p> <p>a) Landline phones are cheaper than a cell phone package and is user friendly. ✓</p> <p>b) Landline phones are used in schools, offices and at home and you pay monthly and their batteries don't run flat. Or any reasonable answer. ✓</p> <p>7.5</p> <p>a) Some cell phones are very expensive to buy. ✓</p> <p>b) You need to charge them daily and you need a charger and charging port. ✓</p> <p>c) They can break easily when they fall and they don't have a proper screen protector. The signal from the towers could be faulty. ✓</p> <p>Any reasonable answer.</p> <p>7.6 Apple I-phone, Samsung, Huawei , Nokia, Oppo, LG or any other make. ✓</p>		
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Total: 60 / 2= 30