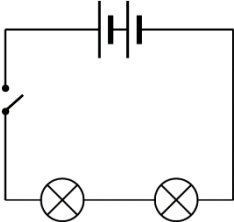


**TOM NEWBY SCHOOL  
GRADE 6 NS/TECH  
TERM 4 FORMAL ASSESSMENT**

**MEMORANDUM**

Question	Answer	Mark Allocation	Level	Order
1.1	False, they repel each other ✓	1	1	L
1.2	True ✓	1	1	L
1.3	False, to send electricity from the source to the device. ✓	1	1	L
1.4	False, output energy can be heat, sound or movement. ✓	1	1	L
1.5	True ✓	1	1	L
2.1	Electricians ✓	1	1	L
2.2	Symbols ✓	1	1	L
2.3	Insulated ✓	1	1	L
2.4	Arrows ✓	1	1	L
2.5	Electrical ✓	1	1	L
3.1	b ✓	1	1	L
3.2	a ✓	1	1	L
3.3	d ✓	1	1	L
3.4	c ✓	1	1	L
3.5	b ✓	1	1	L
4.1	a) Movement ✓ b) It allows people to take pictures or monitor things that are high up in the air. ✓	2	3	M
4.2	a) Heat ✓ b) It allows people to heat food items quickly. ✓	2	3	M
4.3	a) Sound ✓ b) It allows people to communicate with others no matter where you live. ✓	2	3	M

5	battery✓ wire✓ light bulbs✓ open switch✓ series circuit✓		5	3	M
6.1	It needs a lot of systems to make and deliver it.✓		1	4	M
6.2	Compact Fluorescent light bulbs convert 80% of electricity into light and only 20% into heat✓ whereas Normal Light bulbs converts 20% of electricity into light and 80% into heat. ✓		2	5	H
6.3	When the wind blows it turns the blades. ✓ These blades then turn the turbines which are like large wheels. ✓ The turbines then give energy to machines called generating, which generate electricity. ✓		3	5	H
6.4	To water their crops. ✓		1	3	M
6.5	When people make their own connections to a source of electricity.✓		1	3	M
6.6	Electricity theft.✓		1	1	L
6.7	They cause pollution or there is only a limited supply.✓ <b>(any 1)</b>		1	3	M
7.1	D ✓		1	2	L
7.2	E ✓		1	2	L
7.3	B ✓		1	2	L
7.4	A ✓		1	2	L
7.5	C ✓		1	2	L
8.1	hydrogen ✓		1	1	L
8.2	methane ✓		2	1	L
8.3	13 moons ✓		2	1	L
8.4	streaky ✓		1	1	L
8.5	asteroid belt✓		1	1	L
9.1	rotation✓		1	1	L
9.2	24 hours✓		2	1	L

9.3	day ✓	2	1	L
9.4	28 days ✓	1	1	L
10.1	On the Moon ✓	1	3	M
10.2	Neil Armstrong ✓ and Buzz Aldrin ✓	2	4	M
10.3	1969 ✓	1	3	M
10.4	American ✓	1	3	M
10.5	There is no air or water on the moon so nothing could blow it away ✓ or wash it away. ✓	2	5	H
10.6	The Moon Rover ✓	1	4	M
10.7	Various answers ✓✓	2	6	H

**Total: 60**