

# Electrostatics

## Memorandum

### Module 1.1

Name: \_\_\_\_\_

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## MEMORANDUM:

Answer the following questions:

- 1.1 If you remove your jersey in the dark and the ends make sparks.
- 1.2 To the left.
- 1.3 From the charged object to the uncharged object.
- 1.4 There are equally as many electrons and protons in the object.

### QUESTION 2:

Provide one word for the following:

- 2.1 Lightning bolt.
- 2.2 Friction.
- 2.3 Repulsion

### QUESTION 3:

Draw the following sketches and explain:

- 3.1 General drawing.  
Explanation: The charged ruler polarizes the water. Then, the charged ruler attracts the polarized water and the water bends towards the ruler.
- 3.2 General drawing.  
General drawing.
- 3.3 A charged ruler that repels an uncharged ruler.

### QUESTION 4:

Define:

- 1.5 Electrostatics.
- 1.6 Polarization.
- 1.7 Friction.
- 1.8 Charged object.
- 1.9 Electron shortage.

### QUESTION 5:

Write down the correct letter in Column 2 in correspondence with the number in column 1

Column 1		Column 2	
5.1	A positively charged ruler will....a positively charged ruler.	A	Repel
5.2	A positively charge ruler will....a neutral ruler.	B	Attract or repel
5.3	A positively charge ruler will....a negatively charged ruler.	C	Attract
5.4	.... Moves from the ruler to your hair	D	Protons
5.5	A lightning bolt is a large collection of	E	Electrons
		F	Neutrons