**6.3 Check and Reflect – Electrostatics** Name:\_\_\_\_\_\_\_\_\_

***Cannot get full marks if you don’t ANSWER IN SENTENCES!*** Date: \_\_\_\_\_\_\_\_\_\_

1. It is not safe to take shelter under a tree in a thunder storm. Use your understanding of lightening to explain? (2)

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2. Explain the importance of lightning in 1st Nations Cultures. (2)

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3. How does the power of lightning remind us to be humble?(2)

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4. What is the function of a lightning rod? (2)

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5. How is the buildup of charge reduced on airplanes? (2)

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6. Why is it important to ground static electric charges? (2)

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8. How can neutral pollutant particles be made attractive to a charged plate in an electrostatic precipitator? (2)

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9. Describe the devices used on airplanes to protect them from static electric charge buildup?(2)

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10. See Question and Picture pg 228.(2)

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11. When spray paint is applied to a car the paint has a negative charge and the surface has a positive charge. Some processes use negatively charged paint and a grounded object. Explain why this also works. (2)

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