

# Build a Mini Van de Graaff Generator Worksheet

Observations

Part A. Paper Discs

Part B. Tinsel

Part C. Fur

## **Post-Lab Questions** (Answer all questions on a separate sheet of paper.)

Note: For all questions below assume the net charge on the dome of the mini Van de Graaff generator is negative.

### Part A. Paper Discs

- 1. Did the paper discs have a positive or negative charge when in contact with the operating mini Van de Graaff generator? Explain.
- 2. What is the charge on the hand when held over the paper discs? Explain your answer.
- 3. Were the paper discs attracted to or repelled from the hand? Why do you think this occurred?

### Part B. Tinsel

- 4. Did the tinsel have a positive or negative charge when in contact with the operating mini Van de Graaff generator? Explain.
- 5. Was the tinsel attracted to or repelled from the hand? Why do you think this occurred?

### Part C. Fur

- 6. Did the fur have a positive or negative charge when in contact with the mini Van de Graaff generator? Explain.
- 7. What happened to the fur as it remained on the dome with the generator running? Explain why this happened.
- 8. Was the fur attracted to or repelled from the hand? Why do you think this occurred?

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