PHYSICS	Unit 5B Static Electricity	Name:
gpb.org/physics-motion	Questions to Consider	r Date:
After watching the video segment, w down key points, main ideas, and big questions.	vrite g	and insulators and what makes them different. ing by friction, electrical conduction, and induction.
	Notes:	During the video segment, use words, phrases, or drawings to take notes.
Summary: After w You maj	vatching the video segment, write at logy ask yourself: "If I was going to explain	east three sentences explaining what you learned. In this to someone else, what would I say?"

Unit 5B_Notes and Questions STUDENT

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Unit 5B Static Electricity

Questions to Consider

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Answer the following.

1. What is an insulator? Give two examples of insulating materials.

2. What is a conductor? Give three examples of conducting materials.

3. What is the difference between charging an object by conduction and charging by induction?

4. What does it mean when an object is "grounded"? What happens to excess charge on a grounded object?

5. After rubbing a balloon with a towel, the balloon will be attracted to certain surfaces, such as walls, even though they have no net charge. What causes this attraction to occur?





Static Electricity

Unit 5B

Questions to Consider

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6. An uncharged metal sphere hangs by an insulating thread. When a positively charged rod is brought close to the sphere, the sphere moves toward the rod. However, when the two objects touch, the sphere immediately moves away from the rod. Why?

- 7. While holding a wooden dowel attached to a positively charged metal sphere, perform each of the following actions. Draw the resulting electrical charge distributions in the associated diagrams. *Note: Student diagrams should show charges on the surfaces of the sphere*:
 - a. Bring the sphere near an insulated, uncharged metal sphere.



b. Touch the spheres together.



c. Pull the sphere away, out of contact.

