

# Static Electricity Grade 4 Lab Practical

## Teacher's Answer Key

**This is your chance to see how well your students have picked up on important key concepts, and if there are any holes. Your students also will be working on their homework assignment as you do this test individually with the students.**

### **Materials:**

balloon  
ping pong ball  
paper

### **Lab Practical:** Ask the student *Note: Answers given in italics!*

Design and build an experiment that shows how electrically-charged objects attract each other. *Rub a balloon on your head and lift it up six inches. The hair (positive charge) is attracted to the balloon (negative charge). Or bring it close to the ping pong ball and show how the positive charges in the ball are attracted to the balloon.*

Design and build an experiment that shows how electrically-charged objects repel each other. *Rip the paper into tiny bits. Rub a balloon on your head and bring it close to the paper. The positive charge in the paper is attracted to the balloon (negative charge). The paper takes on the charge of the balloon and quickly jumps off.*

Explain how objects that are electrically charged can create a temporary charge on another object. *The positive charges in the wall are attracted to the huge negative charge in the balloon, so the balloon sticks to the wall. The balloon also repels the negative charges in the wall, creating a temporary charge in the wall right around the balloon.*

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## Student Worksheet

**This is your chance to show how much you have picked up on important key concepts, and if there are any holes. You also will be working on a homework assignment as you do this test individually with a teacher.**

### **Materials:**

- balloon
- ping pong
- ball paper

### **Lab Practical:**

Design and build an experiment that shows how electrically-charged objects attract each other.

Design and build an experiment that shows how electrically-charged objects repel each other.

Explain how objects that are electrically charged can create a temporary charge on another object.