SCIENCE MINUTE

Teacher Directions & Answer Key

Static Electricity Magic – The Flying Bag

The first day, students watch the Science Minute video and answer the Day 1 question. You may choose to show the video any of the later days when students need a refresher (or because some students missed the first day).
Each day's activity is based on the Science and Engineering Practices listed below.

Sample answers are listed on the next page.

Link to video: http://stevespangler.com/ss-video/445257416

The beaker icon in the lower left corner represents the approximate grade level.

DAY 1 Practice 1: Asking Questions

DAY 2 Practice 4: Analyze and Interpret Data, or
Practice 5: Use Math and Computational Thinking

DAY 3 Practice 2: Develop Models, or
Practice 3: Plan an investigation

DAY 4 Practice 6: Construct Explanations

DAY 5 Practice 7: Engage in Argument from Evidence, or
Practice 8: Obtain, Evaluate, and Communicate Information

DAY 1

Fill out the T-chart as you watch the video.

Student responses will vary but should include information from Steve's video about static electricity.

DAY 2

Your teacher did an experiment with different objects to see if they can make static electricity. He rubbed the object on a piece of wool and then tried to stick the object to the wall. This is the data. Which item can make static electricity?

Student responses will vary but should include information about how the paper can generate static electricity, but the popsicle stick does not.

DAY 3

Draw an arrow to show which way the balloon will move. Draw a picture to show what it would look like after the balloon moves.

Student responses will vary but should include an arrow pointing from the balloon to the wall. The drawing should be of a balloon touching the wall.

DAY 4

Your friend shocked their finger when they touched a doorknob after walking across the carpet in their socks. Draw a picture that helps explain why that happened.

Student responses will vary but should include information about the static electricity building up in the sock and transferring through the body.

DAY 5

Create an acrostic poem to help explain what you learned from the video using the word "static".

Student responses will vary but should include appropriate information starting with each letter of the word "static".

Name ______________________________ Date __________

Static Electricity Magic - The Flying Bag

DAY 1

Fill out the T-chart as you watch the video.

Notice	Wonder

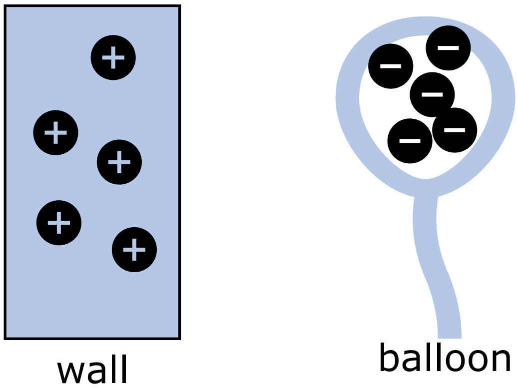
DAY 2

Your teacher did an experiment with different objects to see if they can make static electricity. He rubbed the object on a piece of wool and then tried to stick the object to the wall. This is the data. Which item can make static electricity?

Object	Stuck to the Wall	Did not Stick to the Wall
popsicle stick		X
piece of paper	X	

DAY 3

Draw an arrow to show which way the balloon will move. Then, draw a picture to show what it would look like after the balloon moves.



DAY 4

Your friend shocked their finger when they touched a doorknob after walking across the carpet in their socks. Draw a picture that helps explain why that happened.

DAY 5

Create an acrostic poem to help explain what you learned from the video using the word “static”.

S ______________________________

T ______________________________

A ______________________________

T ______________________________

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C