

Name:

Date:

Class:

Small Group Cushion Comparison Sheet

Directions: You will test your sensor using the same sitter each time to keep data similar. Then, you will test 1 or 2 different cushions to determine the best cushion to comfortably sit in a classroom seat!

Control Test

Experiment 1 - Normal Chair Sitting (No Cushion)			
<u>Trial #</u>	<u>Starting Capacitance (nF)</u>	<u>Final Capacitance (nF)</u>	<u>Change in Capacitance (nF)</u> <u>(Final - Starting)</u>
1			
2			
3			

Average Capacitance: _____

Cushion Test 1 – This cushion is made out of _____

Experiment 2 – Cushion Choice #1			
<u>Trial #</u>	<u>Starting Capacitance (nF)</u>	<u>Final Capacitance (nF)</u>	<u>Change in Capacitance (nF)</u> <u>(Final - Starting)</u>
1			
2			
3			

Average Capacitance: _____

Name:

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Cushion Test 2 – This cushion is made out of _____

Experiment 3 – Cushion Choice #2			
<u>Trial #</u>	<u>Starting Capacitance (nF)</u>	<u>Final Capacitance (nF)</u>	<u>Change in Capacitance (nF)</u> <u>(Final – Starting)</u>
1			
2			
3			

Average Capacitance: _____

Which experiment had the least average capacitance? _____
(No Cushion, Cushion Choice #1, Cushion Choice #2)

Did a cushion increase, decrease, or not change the pressure on the student's body when sitting?

If you told your school's principal about this experiment, what type of seat would you recommend for all students at your school and why?
