**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)** | | | |
| **Trial #** | **Starting Capacitance (nF)** | **Final Capacitance (nF)** | **Change in Capacitance (nF) (Final – Starting)** |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |

Average Capacitance: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Cushion Test 1 – This cushion is made out of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |  |
| --- | --- | --- | --- |
| **Experiment 2 – Cushion Choice #1** | | | |
| **Trial #** | **Starting Capacitance (nF)** | **Final Capacitance (nF)** | **Change in Capacitance (nF) (Final – Starting)** |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |

Average Capacitance: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Cushion Test 2 – This cushion is made out of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |  |
| --- | --- | --- | --- |
| **Experiment 3 – Cushion Choice #2** | | | |
| **Trial #** | **Starting Capacitance (nF)** | **Final Capacitance (nF)** | **Change in Capacitance (nF) (Final – Starting)** |
| 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?

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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?

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