Part 1: Surveys and Bar Graphs

**Step 1:** Create a survey question. Your survey question must have 4 choices.

**Step 2:** Conduct the survey in the classroom.

**Step 3:** Obtain graph paper. Graph your data using a bar graph (make sure you label the x and y axis as well as a table)

**Step 4:** Identify sources of error in the survey and graphing process.

Part 2: Flying Airplanes and Line graphs

**Step 1:** create a paper airplane.

**Step 2:** get a tape measure and find a location (to be announced) **do not leave** until told to do so.

**Step 3:** set up the tape measure and fly you paper airplane. Record your distances.

|  |  |
| --- | --- |
| **Throw or Attempt (#)** | **Distance (feet, meters)** |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
| 5 |  |
| 6 |  |
| 7 |  |
| 8 |  |
| 9 |  |
| 10 |  |
| 11 |  |
| 12 |  |
| 13 |  |
| 14 |  |
| 15 |  |

**Step 4:** Obtain graph paper. Graph your distances using a broken line graph (make sure to label the x and y axis).

**Step 5:** identify sources of error in flying the airplane as well as in the graphing process.