**Journal Notes**

**Causes of Error and Bias**

1. **Human Error (Ex. Writing the wrong number on lab sheet)**
2. **Mismeasurement (Ex. Reading measurement wrong)**
3. **Measured Wrong (Ex. Sugar in the Pecan Pie Video)**
4. **Incomplete Reporting (Ex. World was flat – until Columbus)**
5. **Strong Opinion (Ex. Customer likes chopped pecans instead of whole pecans – in the pie)**
6. **Past Experiences (Ex. Pigeon biting boy)**
7. **Intentional Bias (On Purpose)**
8. **Unintentional Bias (Not having enough information)**