**Process Skills**

**Basic**

**Observing** – a statement made using the senses (Taste, touch, sight, sound, and smell). There are two kinds of observations:

1. Quantitative – Using numbers to observe
2. Qualitative – Using descriptive words to observe

**Inferring** – drawing a tentative conclusion based on prior knowledge. An inference is an interpretation of observations.

**Measuring** – quantitative (with numbers) observations

**Communicating** – giving explanations of observations.

1. Verbal
2. Written
3. Graphically (line graph, bar graph, histogram)
4. Visually

**Classifying** – arranging objects or information by using their attributes

1. Binary – sorting into two groups
2. Multistage – set of binary sorts resulting in one unique attribute for each object
3. Serial – sorting objects in a logical order (size, alphabetical, etc)

**Predicting** – making statements about future outcomes based on prior knowledge or experience. This is a forecast for what might happen.

**Comparing** – Noticing the similarities or differences between the objects to be compared.

**Integrated**

**Hypothesizing** – a suggested explanation based on background knowledge.

**Making models** – creating a visual representation of an event or object

**Data collection**

1. Data tables – quantitative data in chart form
2. Graphing – a representation of data

**Data Interpretation**

1. Interpolation – interpretation within a set of data
2. Extrapolation – interpretation of information beyond the data

**Experimenting**

1. Controlling variables