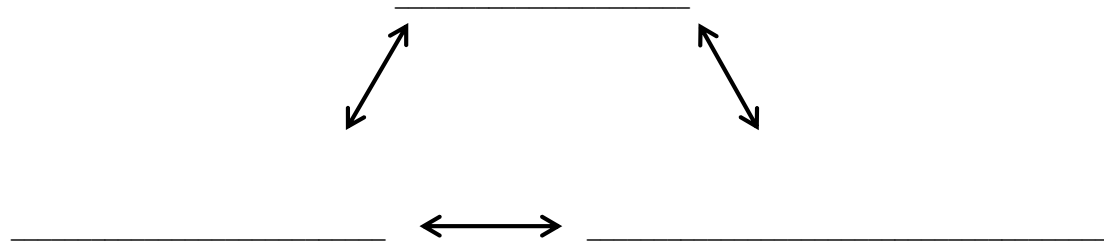


*Science Process Skills- Guided Notes*

Science process skills are \_\_\_\_\_.

**The Engineering Framework:**



\_\_\_\_\_ is the step where we identify what the problem is and identify the constraints

**Constraints** are \_\_\_\_\_ ex. size, time, and budget

One example: It's the first day of football season and the parking lot of NC State's Carter-Finley Stadium is going to be under construction.

The problem is:

Some constraints are:

\_\_\_\_\_ is the step where we work within constrains in order to determine a solution while looking back at previous solutions or solutions to similar problems

One example: We need to carry heavy sandbags across a beach with deep loosely packed sand.

An example of a past or similar solution with this or a similar problem:

A possible solution is:

\_\_\_\_\_ is the step were we test solutions and ask questions (is this is most efficient solution, is this is least expensive solution, etc.)

Problem/solution Example: Road work needed to be done; currently workers are working from 1pm until 7pm

One way we could optimize this solution:

**Observation vs. Inference:**

Observation is-

Inference is-

**Analyzing Data:**

Qualitative data- describes the \_\_\_\_\_ of something

Ex.

Quantitative data- describes something \_\_\_\_\_

Ex.

Precision- How \_\_\_\_\_ data is grouped

Accuracy- How close data is \_\_\_\_\_