Name: Date: Pd:

Experimentation/ Scientific Methodology Notes

Why should we study Science?

_____

_____

_____

What is Science?

Science is the use of _____ to construct _____ explanations and predictions of natural phenomena.

Scientific Methodology

Why isn't the study of science a step by step rigid process?

_____

_____

What is the difference between the grass in A and B?

Observations:

_____

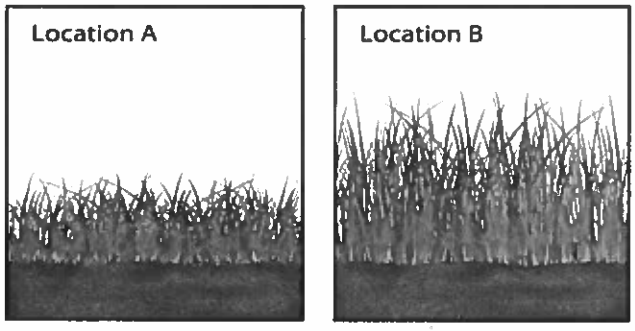
_____

_____

_____

_____

_____



Why study only one factor at a time when asking a question?

Asking Questions:

_____

_____

What is a hypothesis?

An inference is _____

_____

A hypothesis is _____

_____

How would you design an experiment?

Experimentation:

There are _____ groups in an experiment.

The _____ group is unchanged. You do not manipulate any variables in this group.

The _____ group contains one variable that is changed.

The one variable that you change in an experiment	**This variable responds to the change and is the measured variable**
The variables that remain the same in both groups	**This group remains unchanged**

What types of data should we collect?

_____ data are numbers.

_____data are descriptive.

How do we graph our data?

D_____ **M_____**

R_____ **I_____**

Y_____ **X_____**

What is happening in the graph?

_____

_____

_____

_____

_____