SCIENCE

NAME: PERIOD: DATE:

EXPERIMENTS NOTES

Experiment is the scientific method is where the hypothesis is tested to see if it solves the problem.

To do an experiment that gives you high quality results, one must do the following:

1. HAVE A TEST AND CONTROL GROUP

A **Control group** is under normal conditions. This group shows what normally happens.

A **Test group** is being experimented on. You try your hypothesis on this group.

2. KEEP THE CONDITIONS THE SAME EACH TIME.

The Test and Control group should be treated exactly the same except for the one variable you are testing.

3. REPEAT THE EXPERIMENT MANY TIMES.

Doing the experiment many times makes you aware if there is more than one possible solution (Ex. Rolling a die)

VOCABULARY:

Variable - a condition or factor that could affect the experiment

Independent Variable – the one variable you are manipulating in the experiment

Dependent Variable – the results you get from your experiment

Hypothesis – a prediction supported by facts and/or gathered information (an educated guess)

Inference – a prediction based on feelings or past experience

Observation – a noticed fact