

Fourth Grade Scientific Method

Name _____ Date _____ Pd./ HR _____

Scientific Method has 6 steps:

Step 1: Question/Problem ~ develop a question about a problem, be specific

Step 2: Research information ~ gather information about the question/problem use books, magazines, reports, prior knowledge

Step 3: Hypothesis ~ what you think the answer is based upon your gathered information or prior knowledge, an educated guess, (I think statement)

Step 4: Experiment will test your hypothesis, includes step-by-step procedure and materials list

Three types of variables: A variable is anything that changes or could change during the experiment

1. Independent Variable ~ the scientist changes this variable
2. Dependent Variable ~ part of the experiment that changes as a result of some other action, it is measured
3. Constant Variable ~ the part of the experiment that is not changed by the scientist

Step 5: Observations ~ using five senses to observe, gather information, record what happens, and analyze data, it may be a graph, chart, or written work

Step 6: Conclusion ~ what did you find out? Was your hypothesis correct? It's okay if it isn't, you still learned!!!