Name Block

Date Group #

**Th**[**e Times and Troubles of the Scientific Method**](http://www.youtube.com/watch?v=i8wi0QnYN6s)

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1. Define Science-
2. What is the purpose of the Scientific Method?
3. Hank’s problem is that his dog is dragging its butt across the carpet. ☹ Listen to his explanation and fill in the steps of the Scientific Method below.
   1. Question-
   2. Research-
   3. Hypothesis-
   4. Experiment (2 possible options)
   5. Analyze-
   6. Conclusion-
4. History of the Scientific Method
   1. Aristotle-
   2. Ibn-Al Haytham-
   3. Scientific Revolution (Europe 16th Century-18th Century)
      1. Galileo-
      2. Bacon-
      3. Sanches-
      4. Newton-
5. 20th Century
   1. Early Part-many important discoveries made without using the Scientific Method but through **Creativity and Serendipity**
      1. Marie Curie-
      2. Albert Einstein-
      3. Nikolai Tesla-
      4. Alan Turing-
6. Thomas Kuhn (physicist and philosopher of science)-said there was nothing wrong with the Scientific Method itself just that
7. Phases of Science (runs in a CYCLE)
   1. Normal Science-
   2. Paradigm Shift-
8. Computers
   1. Why are they considered to cause a major change in the way science is done?
   2. What will be the role of human scientists?