**What does “doing science” look like?**

“Almost every science textbook starts with a chapter on "The Scientific Method." The scientific method is usually defined as a series of steps - Problem, Hypothesis, Experimentation, Observation, Conclusion - that grossly simplify the scientific process.” http://www.edutopia.org/blog/how-to-teach-students-to-think-like-scientists

Scientific research is a very involved and complex process. Scientists DO NOT walk into their labs each morning and begin their workday by thinking of a problem to solve, and then developing a hypothesis, designing and conducting an experiment, collecting data and observations during the experiment, developing conclusions about the problem they were exploring, and then going home to dinner. Science is a much, much more involved and creative process than the one that is described in science textbooks.

**In the video, what did “doing science” look like?**

Did the scientists in the “Desperate Alewives” video do all of their research indoors, in laboratories? Use an example from the film to explain your answer.

Based on what you observed in the video, do you think that it is easy for scientists to do “good work” if they don’t interact with other people? Explain using an example from the video.

Give two examples of information (about alewives) that the scientists in the movie obtained WITHOUT performing an experiment.

Give an example from the movie that shows how a scientist had to be CREATIVE in order to obtain the information that they needed to know about alewives.

Does it seem to you that the scientists in the video are ever completely finished with their research? Will they walk into work one day and say “Great! I’ve finally answered every single question about alewives! My work is done!”?? Explain your answer.