

Friday, August 21, 2009

Please record your homework immediately.

Put any signed papers you owe me on the table.

Have notebook, writing utensil, and lab report ready for notes and discussion.

Juxtapose your lab report with purple student samples.

- How is this one superior to yours?
- Does this one have flaws? What would make it a better lab report?
- Is there enough information for you to replicate the experiment?

Thinking like a scientist...what are a Scientist's Skills and Habits of Mind? (notes)

Brainstorm and record what you think some skills and habits of mind might be. Record them in your notebook.

Add the following under your brainstorming results.

Thinking Like a Scientist

- Am I able to interpret the information on this document?
- Does it make sense?
- Is the test *appropriate* for the *hypotheses*?
- Can I replicate what the previous science team has done?
- Do I agree with their conclusions? Why or why not?

Skills and Habits of mind (science process skills)
Include (there are others):

- problem solving
- observation
- discovering / determining cause and effect
- making inferences
- drawing conclusions
- classifying
- predicting

Practicing scientific habits of mind: evaluating the work

1. Tape the yellow evaluation rubric into your notebook on the next page. UPDATE your TOC.
2. Cross out # 3.
3. Draw 2 columns on the right of the rubric: OURS | THEIRS
4. Using this rubric and the questions from the notes, evaluate both lab reports – yours and the purple one. Discuss, but you do NOT have to agree.

**Scientific Method and Process Skills
Pretest and Action Plan**

1. Tape your score report into your notebook on the next blank page.
2. Update your TOC.
3. LIST your areas of weakness under your score report as I go over them with the class. (For absent students and first period students, the areas of weakness are on the next slide.)

KEY:

area of weakness (question number assessing that skill or topic)

1. selecting appropriate units (1, 12)
2. metric conversion (2, 3)
3. observation, inference, prediction (4-7, 18)
4. variables (8 - 10, 13 - 14, 20)
5. reading tools or determining increments (11)
6. scientific method (15 – 20)