

CHEMISTRY I: BUBBLY, STICKY, BOUNCY, AND ICKY!

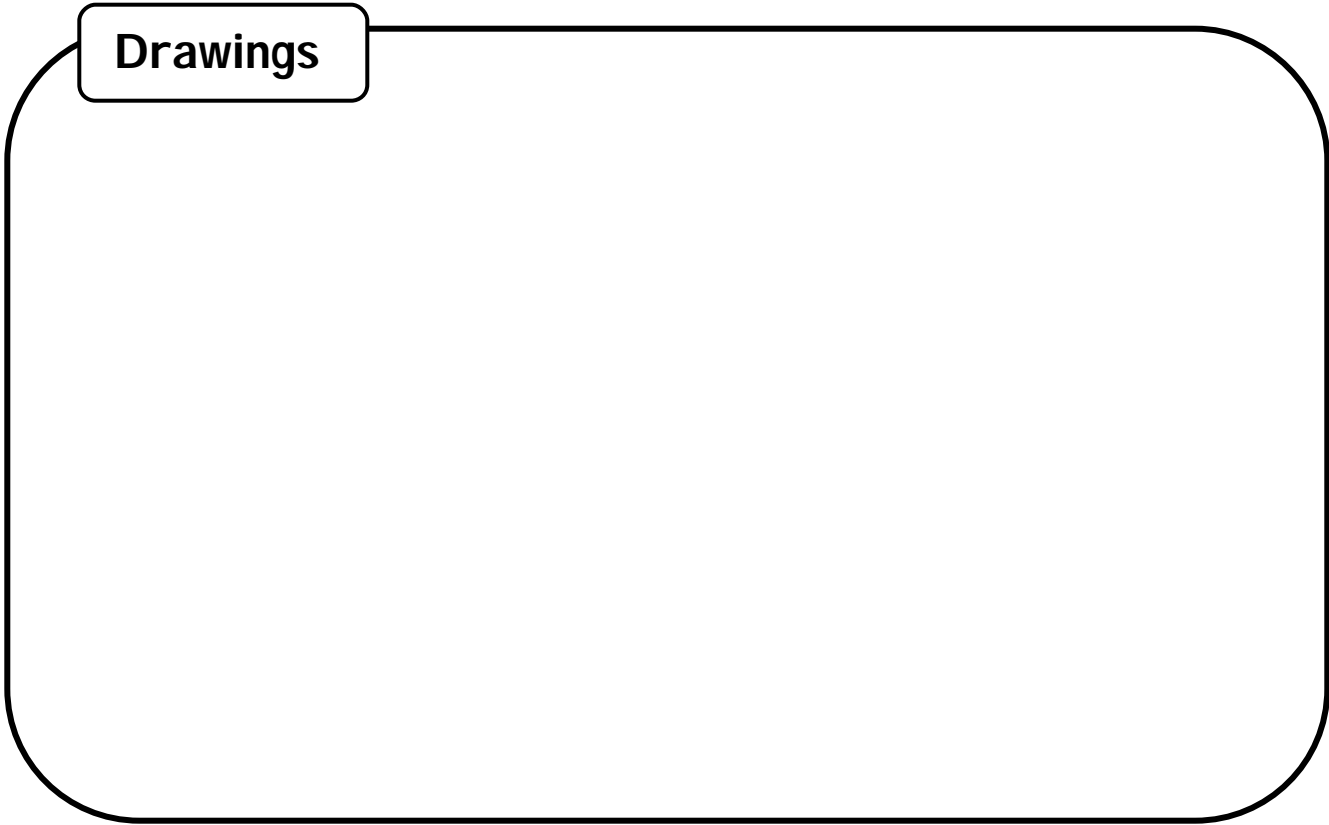
INSTRUCTOR'S GUIDE

Dr. Randy Pritchard

Reproducible Pages

Science Notebook Page
Lab Notebook Page

Drawings



Reading Notes

Definitions

Date _____

Experiment Name _____

What have you learned about this subject?
(observation/research)

What question are you trying to answer?
(question)

What things do you need?
(materials)

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

What will you do to answer the question? (experiment/test)

What do you think will happen? (hypothesis/prediction)

What happened? (results)

Why do you think this happened? (conclusion)

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Weekly
Reading and Assignment
Schedule

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The following is a complete list of items that will be used for the required experiments over the entire 36-week course. This list includes many items that are common in most homes. The list does not include the items that are provided in *The Young Scientists Club* kits.

Master Supply List	
Item needed:	Week(s) used:
Vinegar	2, 10, 14, 15, 18, 20, 30, 34, 36
Baking soda	2, 15, 20, 33, 34
Food coloring	3, 4, 15, 21, 22, 24, 25, 34
Glass container	3, 4, 20 (narrow neck), 24, 25, 33
9-volt battery	11
Copper wire	11
Dominoes	8
Steel wool (without soap)	10, 18
Sterling silver utensil	10
Salt	11, 23, 34, 36
Eggs	14, 28
Laundry detergent	15
Bottle of soda (with replaceable cap)	16, 23 (empty), 25 (empty)
Active dry yeast	16
Balloon	16
Kitchen utensils (bowls, pans, egg beater, etc.)	19, 21, 24, 27, 28, 30, 31, 34, 36
Cooking spices	19
Seltzer or soda water	20
Cornstarch	21, 27
Empty cereal box	22
Tape	22
Marker	22, 31
10 small, light objects	22
Vegetable oil	22
Syrup	22
3 feet of string	24
30 pennies	25
Paper	25 (white), 31 (newspaper, toilet paper, paper towel, brown paper bag), 36 (white)
Liquid dish soap	25
Sugar	25, 28 (powdered), 33
½ teaspoon cream of tartar	28
1 teaspoon vanilla extract	28
½ cup milk	30
Pieces of cloth and plastic	31
Lettuce, carrot or apple slices	31
Hammer	34
Ruler	36

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Week 1				
	Day 1	Day 2	Day 3	Day 4
What's Smaller Than A Pygmy Shrew?	Pp. 1-9 (stop at ...your leaf boat!)	Pp. 10-14 (stop at ...things called molecules!)	Pp. 11-16 (stop at ...an atom's nucleus together.)	Pp. 17-23

Supply List: none

Assignments:

Day 1 – read the description of a pygmy shrew in the glossary of *What's Smaller Than A Pygmy Shrew?* Read the assigned pages and describe and/or sketch what you learned in your science notebook (Note: Younger students will “narrate” what they have learned. You may need to ask prompting questions to get younger students to begin to concentrate on the important topics in the reading assignments. Use the reproducible sheets to create a science notebook for writing/sketching important ideas).

Day 2 – read the assigned pages and describe and/or sketch what you learned in your science notebook. Define **cell** using the *What's Smaller Than A Pygmy Shrew?* glossary.

Day 3 – read the assigned pages and describe and/or sketch what you learned in your science notebook. Define **molecule** and **atom** using the *What's Smaller Than A Pygmy Shrew?* glossary.

Day 4 – read the assigned pages and describe and/or sketch what you learned in your science notebook.