

Exploring Creation with Physical Science by Dr. Jay L. Wile

Schedule for Edition I ~Donna Young

Students: Read the Student Notes that are in the beginning of your book.

Always do the On Your Own questions while reading the text and look up the answers afterwards. Study and work on paper all examples that contain math. Always write a lab report during and after the lab.

	I	II	III	IV	V
WK.1	1-I Module #1 Experiment 1.1 Document materials, method, and results	1-II Read to page 10 up to Manipulating Units. In your lab book, draw and label Fig.1.2. (write the notation on your drawing just like it is in the picture.)	1-III Read 10-15	1-IV Read 16-18 up to Concentration. Do experiment 1.2	1-V Read 18-19 Read Concentration and do Experiment 1.3.

Notes: Experiment 1.3 requires 3.5 cups of vinegar altogether. In the second part of the experiment, the total amount of liquid in each glass is 2 cups so you will need big clear glasses. We ended up using canning jars.

If you do not have a gallon sized jar for experiment 2.2, get a gallon jar of pickles and eat them over the next week.

WK.2	2-I Read 19-21 and the on your own questions	2-II study: Do 1/2 of the study guide. Write answers on paper and discuss answers with parent.	2-III study: Do remaining 1/2 of study guide.	2-IV Test	2-V
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Week 2 is over and we discovered that the Study Guide can be completed in one session easily which is what we did.

Shopping List for week 3: 1. Hydrogen Peroxide (we bought 2 bottles just in case). 2. Big party balloons (the ones that I found state that they inflate to 9 inches) 3. A 1-liter bottle, (I thought the mouth on the "sports drink" bottles were too big, I ended up buying a spray bottle from the garden center at Big K. It holds one quart of liquid and the mouth is small enough for the balloon. Other items needed that we already have: bulb thermometer that reads room temperature, cotton balls, Ziplock® sandwich bags, candle, matches, baker's yeast, jar large enough to fit over candle (gallon pickle jar), vinegar, and baking soda.

WK. 3	3-I Module #2 Read 27-30 stop at The Composition of Air. Do experiment 2.1	3-II Read 30-33 stop at Carbon Dioxide in the Air, do experiment 2.2	3-III Read 33-38 stop at global warming, do experiment 2.3	3-IV Read 38-43 stop at Ozone.	3-V Read 43-45 stop at Air Pollution
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All of the experiments have gone well so far, but... we just did experiment #2.2 and WOW! What an event that was! You will see what I mean ☺ Tips for 2.2: practice putting the balloon on the bottle a few times to get the hang of it before the experiment and put foil or waxed paper under the bottle to catch possible overflow. It is nice to have a funnel, I made one from foil and we have used the foil funnel for experiments 2.2 and 2.3 so far. I cleaned it well after each use. It is very handy to have two thermometers for experiment 2.3. We have two and we were able to run the two parts of the experiment at the same time. This week went well. The schedule was ok. It is possible to do 3-IV and 3-V together if you are a day behind. *Always do the On Your Own questions.*

WK. 4	4-I Read 45-51	4-II Read 52-53	4-III Read 55 Study and discuss questions 1-10	4-IV Read 55-56 Study and discuss questions 11-20	4-V Test
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GRADES:

Lab Grades % of final grade:			Lab Average	Test Grade for Module % of final grade:	Final Grade for Module
1.1:	1.2:	1.3:		Mod. 1:	Mod. 1:
2.1:	2.2:	2.3:		Mod. 2:	Mod. 2:

NOTES:

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Note: Optional: Fill a couple of 2-liter coke bottles with water and freeze them ahead of time for experiment #3.2. To find out why read below about how we did experiment 3.2.

	I	II	III	IV	V
WK. 5	5-I Module #3 Read 57-59 and do experiment 3.1	5-II Read 59-61	5-III Read 61-63 Draw and label figure 3.1	5-IV Read 63-66 Draw and label figure 3.2	5-V Read 67-70 do experiment 3.2

The supplies needed for this week's experiments are very common. For experiment 3.2 we will use the same bottle that we used in the previous experiments. Drawing is included in this week's plan, but it is not a requirement. The purpose for the drawings is to help the child remember what is in the homosphere and heterosphere. To meet this purpose the drawings should be labeled with terms and details. My son loved experiment 3.1. He did it several times. He used a wide mouth quart jar to cover the candle. He also tried the experiment using a gallon sized pickle jar. He had a ball with experiment 3.2. He used my kitchen sinks instead of bowls for the water. To keep the water very cold, he used a couple of two-liter bottles full of ice along with some loose ice from the freezer. He also did the experiment backwards and that was very interesting!!

WK. 6	6-I Read 70-75, read The Temperature Gradient in the Homosphere.	6-II Read 75-78, read The Heterosphere.	6-III 1/2 of Study Guide. discuss	6-IV 1/2 of Study Guide and discuss	6-V Test
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Unusual Items Shopping list for Module #4: Two test tubes, I measured the top of a 9 volt battery (cell) and decided that **13mm test tubes** are the size needed (bigger ones may work). I did not have an easy or cheap source for these and I wasn't going to skip the experiment! So instead, we will be using a substitute item for the test tubes. I found in the craft department at Wal-Mart some containers that are very similar to test tubes. These plastic containers held some sort of glitter glue. I dumped out the glitter glue from two of the containers and cut the top off. They are exactly the right size! :) You will need **Epsom Salts**, a **fresh 9 volt battery**, **sand**, a **clear plastic 2-liter bottle** (save a soda bottle for this), and a **paper or Styrofoam cup**. All of the other supplies are common, but be certain that you check the list that is in the front of your book.

WK. 7	7-I Module #4 Read 81-84, do Experiment #4.1 (don't do this experiment in a good bowl, the battery can leave a yellow stain)	7-II Read 85-86	7-III Read 86-90, read Water's Polarity and do experiment 4.2	7-IV I am leaving today free just in case this assignment takes two days	7-V Read 90-93, read and do experiment 4.3
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Always do the On Your Own questions.

WK. 8	8-I Read 93-97, read text and do experiment 4.4	8-II This may be another two day assignment, so I am leaving today free.	8-III Read 97-99, read text and do experiment 4.5	8-IV Read 99-100	8-V free or catch-up
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Week 9 is the end of the first quarter.

WK. 9	9-I Read 103-104 Take the next one or two days to do the study questions	9-II Study	9-III Study	9-IV Test	9-V free or catch-up
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GRADES:

Lab Grades % of final grade:					Lab Ave.	Test Grade for Module % of final grade:	Final Grade for Module
3.1:		3.2:				Mod. 3:	Mod. 3:
4.1:	4.2:	4.3:	4.4:	4.5:		Mod. 4:	Mod. 4:

NOTES:
