

PRE-ALGEBRA B
Course Outline 3262

I. Textbook Assignment Options:

A. *AGS Pre-Algebra, Part II (5.0 credits)*

- Complete: all even-numbered problems in Chapter 7.
- Complete: Chapter 7 “Review,” even-numbered problems.
- Complete: all even-numbered problems in Chapter 8.
- Complete: Chapter 8 “Review,” even-numbered problems.
- Complete: all even-numbered problems in Chapter 9.
- Complete: Chapter 9 “Review,” even-numbered problems.
- Complete: all even-numbered problems in Chapter 10.
- Complete: Chapter 10 “Review,” even-numbered problems only.
- Complete: all even-numbered problems Chapter 11.
- Complete: Chapter 11 “Review,” even-numbered problems.
- Complete: all even-numbered problems in Chapter 12.
- Complete: Chapter 12 “Review,” even-numbered problems.
- Complete two Extension Activities listed below.

B. *Saxon Algebra ½, Part II (5.0 credits)*

- Complete: Lessons 72-137; even problems only
- Complete two Extension Activities

C. *Saxon Math 87, Part II (5.0 credits)*

- Complete: Lessons 61-120, even-numbered problems.
- Complete two Extension Activities

D. *Pacemaker Pre-Algebra, Part I (5.0 credits)*

- Complete: Chapters 7-13 “Practice” exercises.
- Complete: “Chapter Quizzes”, even-numbered problems.
- Complete: Units 3-5 “Review” exercises, even-numbered problems.
- Complete one Extension Activities listed below.

E. Pre-Algebra (Prentice Hall) (**1.0-5.0 credits**: direct instruction or course contract)

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D. *Pacemaker Pre-Algebra*, Part I (5.0 credits)

- Complete: Chapters 1-6 “Practice” exercises
- Complete: “Chapter Quizzes”
- Complete: “Unit One Review,” even-numbered problems
- Complete: “Unit Two Review,” even-numbered problems
- Complete one Extension Activity listed below.

E. Pre-Algebra (Prentice Hall) (1.0-5.0 credits: direct instruction or course contract)

II. Extension Activity Options:

A. Listed below is an imaginary list of U.S. car production for 2002.

Auto Alliance	149,562
Chrysler Corp.	576,864
General Motors Corp.	2,515,136
Honda Motors	552,995
Ford Motor Co.	4,500, 200
Nissan	333,234
Saturn	450,565

This assignment will include making a pie graph using Microsoft Excel that will illustrate what percent of the total U.S. car production each of the above companies represents. This assignment may require teacher assistance, but following are some basic directions:

1. Open Excel. At cell A1, type in the name of the first car company, adjusting the column width so that the entire name fits. At cell A2, type in the name of the second car company and so on.
2. At cell B1, type in the number of cars produced by the first company, at cell B2 the number of cars of the second company, etc.
3. Use the mouse to highlight Columns A and B.
4. On the toolbar, click on “chart wizard” to begin creating a graph.
5. Select “pie” as the type of graph to create. Click on the “titles” tab in the chart title window, and type: 2002 U.S Car Production. Click on “data labels” tab and select: show percent.
6. Click on the “next” button once. Select: As An Object In: Sheet 1. Click on “finish”.
7. Print a copy of your graph.
8. Convert each company’s percent of production to a fraction.

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- B. Using the Internet, go to the www.foodtv.com Website. The objective of this assignment is to find your favorite cookie recipe and then use Microsoft Excel to expand that recipe to make batches for larger groups. This assignment may require teacher support, but the following directions will provide some assistance:
1. Once at the www.foodtv.com Website, find the search window and type in the name of your favorite type of cookie such as chocolate chip, oatmeal or sugar. Conduct a search for a recipe, choose a recipe from the file and write it down.
 2. Open Microsoft Excel. In column A, type the quantity of each ingredient from your recipe into each cell. In column B, type the name of each ingredient. If, for example, your recipe called for 1 cup of flour, you would type the 1 in cell A1 and the word "flour" in cell B1. (Adjust the cell width using the mouse as needed so that the entire quantity and name of each ingredient appears).
 3. Go to cell C1, type in the following formula: $=A1*2$ and hit Enter. Go to cell D1, type in the following formula: $=A1*4$ and hit Enter. These formulas are telling the program that the information that will go into C1 and D1 will be 2 times and 4 times the information in Column A cells, respectively.
 4. Click on Cell C1 once. Using the mouse, place the cursor over the lower right-hand corner of cell C1 until you see a plus sign. Click and drag the plus sign down Column C until you reach the bottom cell of your recipe. Repeat for Column D. You will then have recipes that would double and quadruple the original quantity.
 5. Now you will copy and paste your recipes to Microsoft WORD. Highlight all cells used in Excel, beginning with A1. Right click on your mouse and select "copy". Open WORD to a blank document, right click and press paste. You can now label your recipe and print out a copy.
- C. Use travelocity.com, cheaptickets.com or mapquest.com as your Internet search engine to plan a driving trip to several cities in the U.S. Begin and end your trip in Bakersfield, using the following information:
1. The trip should be between 5-7 days, with no more than 1 day in a place.
 2. Your driving speed should be 65 miles per hour.
 3. You will need to travel between 250 and 500 miles per day.
 4. Record the following:
 - a. The distance, the travel time and destination each day.
 - b. The total cost of gasoline for the trip, if the price per gallon is \$1.60.
 - c. Total miles traveled, and the percent of total miles traveled each day.
- D. Teacher generated activity, approved by the site administrator.

III. Evaluation

- Unit and/or final test.
- All textbook work must meet the 70% accuracy level for a "C" grade.

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- C. Record the numbers on your electric meter at home at the same time each day for 5 days. Find and record the difference between each day's readings to determine how many kilowatts were used each day. Using Microsoft Excel, create a line graph showing each day's usage. Teacher assistance may be required, but list below are basic directions for creating your graph:
1. Open Microsoft Excel. In cells A1-E1 type in the days of the week for which the meter readings were done. You may need to adjust the cell width to accommodate the names. If so, use the mouse to click and drag the lines to the right.
 2. In cells A2-E2, enter the kilowatt usage for each day.
 3. Highlight cells A1-E2. Click "insert" and then "chart."
 4. Find and click on "line" for the type of chart you will make, and click "next" two times.
 5. For the chart title type: "Meter Readings," for the X axis, type "Days" and for the Y axis, type "Kilowatts," and then click "next."
 6. Click "finish" and print out your line graph.
- D. Teacher generated activity, approved by the site administrator.

III. Evaluation

- Unit and/or final test.
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