

**MATHEMATICS IIA**  
**Course Outline: 3201**

**I. Textbook Assignment:**

*Saxon Math 54, Part I (5.0 credits)*

- Complete: all even-numbered problems in Lessons 1-20.
- Complete: all even-numbered problems in Lessons 21- 40.
- Complete: Extension Activity A or C.
- Complete: all even-numbered problems in Lessons 48-51, 55-60
- Complete: all even-numbered problems in Lessons 64, 67-76
- Complete: Extension Activity B or C.

**II. Extension Activities**

- A. Using any search engine on the Internet, find the National Football League’s statistics information at <http://www.nf.com/stats>. Find the current or most recent statistics for the top 5 football running backs. (Hint: look for key words such as rushing yards or rushing performances). Use Microsoft WORD to create a table that will list each player’s name and yards rushing. Include a total line in the table. To create a table in WORD, click on the word “table” on the menu bar at the top of the screen, then “insert”, and then “table”. The table “wizard” will appear and you will need 2 columns (names and # of yards) and 6 rows (1 for each player’s name and one for the total of yards rushing.) Complete the table by filling in the information from the NFL website, add the yards rushing for all of the players and complete the bottom line with the word “total” and the number of total rushing yards by the 5 players. Place the column headings (“Player” and “Rushing Yards”) at the top of each column. Your table should resemble the following sample:

Player’s Name	2002 Yards Rushing
Total	

- B. Plan a 5-day trip to Orlando, Florida using one of the following Internet search tools to get your flight information: Travelocity.com, Expedia.com, or Cheaptickets.com. You and one other adult (2 adults) will depart Los Angeles (LAX) and fly to Orlando (MCO) (round trip airfare) where you will stay for 5 days. (SDAP 1-1.0)

Search for and record:

- 1) your arrival time in Florida,
- 2) the name of the Airline,
- 3) the travel time to Florida
- 4) price of the 2 round-trip tickets

## MATHEMATICS IIA

C. 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.

**MATHEMATICS IIB**  
**Course Outline: 3202**

**I. Textbook Assignment Options:**

A. *Mathematics: Applications & Connections Course 1, Part I (5.0 credits)*

- Complete: “Check for Understanding,” and “Exercises” 1-1 to 1-7.
- Complete: Chapter 1 “Mid Chapter Self-Test” (even only).
- Complete: “Check for Understanding” and “Exercises” 2-1 to 2-6 (even only).
- Complete: all “Section Quiz” problems.
- Complete: Chapter 2 “Mid Chapter Self-Test” (even only)
- Complete: Extension Activity A.
- Complete: “Check for Understanding,” and “Exercises” 3-1 to 3-6 (even only).
- Complete: Chapter 3 “Mid-Chapter Test” (even only).
- Complete: all “Section Quiz” problems.
- Complete: “Standardized Test Practice” (even only).
- Complete: Extension Activity B.
- Complete: “Check for Understanding,” and “Exercises” 4-1 to 5-5
- Complete: Chapters 4 and 5 “Mid Chapter Self-Tests” (even only).
- Complete: all “Section Quiz” problems.
- Complete: “Check for Understanding,” and “Exercises” 5-6 to 6-7 (even only).
- Complete: “Standardized Test Practice”
- Complete: Chapter 6 “Mid Chapter Self-Test” (even only).
- Complete: all “Section Quiz” problems.

B. *Saxon Math 54, Part II (5.0 credits)*

- Complete all even-numbered problems in Lessons 82 - 89, 92 –96.
- Complete: Extension Activity A.
- Complete: all even-numbered problems in Lessons 101 – 114.
- Complete: all even-numbered problems in Lessons 121 – 124.
- Complete: Extension Activity B.
- Complete all even-numbered problems in Lessons 129 – 141.

C. *Saxon Math 65, Part I (5.0 credits)*

- Complete all even numbered problems in Lessons 17-76.
- Complete Extension Activity A.
- Complete Extension Activity B.

# MATHEMATICS IIB

## II. Extension Activities

### A. My Vacation

Using the Internet, plan a one-week vacation. Some websites that you might find useful are: mapquest.com, travelocity.com or expedia.com. Write a 3-paragraph report about where you will travel, the sites you will visit along the way and the distance and driving times for each part of your trip. Include in your report a map of where you are vacationing. (NS 4-3.0: MG 4-2.0: SDAP 4-1.0: MR 4-1.0)

### B. Google Search

Using the Internet, go to: nba.com. Select “players” from the list of links on the left. Choose 8 current NBA players' scoring statistics. Design a table and number line to organize your data. The scoring averages will be from least to greatest. Find the difference between the high and the low. (NS 4-2.0: SDAP 4-1.0)

**Hint:** To create a table in WORD, click on the word “table” on the menu bar at the top of the screen, then “insert”, and then “table”. The table “wizard” will appear and you will need 2 columns (names and scoring averages) and 8 rows (1 for each player’s name). Place the column headings (“Player” and “Scoring”) at the top of each column. Your table should resemble the following sample:

Player	Scoring

C. 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.

MATHEMATICS IIC  
Course Outline: 3203

**I. Textbook Assignment Options:**

A. *AGS Basic Mathematics, Part I (5.0 credits)*

- Complete: Chapters 1-7; even problems only. For all lessons, **omit** applications unless assigned under Extension Activities.
- Complete: Chapter 6, Lesson 12; Part A.
- Complete: “Chapter Review” problems; even problems only
- Complete one application (Section A) and one technology (Section B) Extension Activity listed below.

B. *Mathematics: Applications and Connections Course 1, Part 2 (5.0 credits)*

- Complete: “Check for Understanding” and “Exercises” (even only) Sections: 7-1 to 8-3. (**Omit**: 7-4 #42, 7-6 #42).
- Complete: Chapters 7 and 8 “Mid Chapter Self-Tests” (even only).
- Complete: Chapter 7 “Standardized Test Practice” (even only).
- Complete: all “Section Quiz” problems.
- Complete: “Check for Understanding” and “Exercises” (even only) Sections: 8-4 to 9-6.
- Complete: Chapter 9 “Mid Chapter Self-Test” (even only).
- Complete: Chapters 8 and 9 “Standardized Test Practice” (even only).
- Complete: all “Section Quiz” problems.
- Complete: “Check for Understanding” and “Exercises” (even only) Sections 10-1 to 11-5 (**Omit**: 10-6 #22, 11-3 #34).
- Complete: Chapters 10 and 11 “Mid Chapter Self-Tests” (even only).
- Complete: Chapter 10, “Standardized Test Practice” (even only).
- Complete: all “Section Quiz” problems.
- Complete: “Check for Understanding” and “Exercises” (even only) Sections: 11-6 to 13-5 (**Omit**: 11-7 #34, and 12-1 #32).
- Complete: “Mid Chapter Self-Tests” (even only).
- Complete: Chapters 11-13 “Standardized Test Practice” (even only).
- Complete: all “Section Quiz” problems.
- Complete: **two** Extension Activities from Section B Below.

C. *Saxon Math 65, Part II (5.0 credits)*

- Read and Complete: Lessons 77-140, even problems only.
- Complete: two Extension Activities from Section B.

D. *Pacemaker Basic Mathematics, Part I (5.0 credits)*

- Read and Complete: Chapters 1-9, all problems.
- Complete one Extension Activity from Section B.

## MATHEMATICS IIC

### II. Extension Activities

- A. Application Activities; *AGS Basic Mathematics*
1. AGS, Chapter 1: “Good Gas Milage=Savings”
  2. AGS, Chapter 4: “Find the Best Buy”
  3. AGS, Chapter 6: “Some Tips on Tipping”
  4. Teacher generated activity, approved by the site administrator.
- B. Technology Activities
1. Record the time you spend watching TV over the next five days. After you have collected your data, you will create 2 different types of graphs using Microsoft Excel. Your teacher can help, but the following instruction can serve as a guide:
    - Open Microsoft Excel
    - In column A, enter into each cell one of the days used in your study
    - In column B, enter the TV viewing hours for each day.
    - Click on the Chart Wizard icon on the top toolbar to begin creating your graphs
    - Create a column and line graph and include a title
  2. Use any search engine from the Internet (Yahoo, Google etc.) to find the following website: [worldalmanacforkids](http://worldalmanacforkids.com). Go to the “explore” icon, then to “population” and then to “population of U.S.” Write a proportion showing the population of California as compared to the population of the U.S. Also, write a proportion comparing the population of the largest state to the smallest state, listing the names of the states.
  3. If using *Mathematics Applications and Connections, Course 1* textbook, refer to Page 362, “Constructing Line Segments and Angles.” You will need a compass and a straightedge to begin this assignment. Complete: “Try This” and “On Your Own” exercises on pages 362-363 (MG 5-2).
  4. If using the *Mathematics Applications and Connections, Course 1* textbook, refer to page 301. Using a spreadsheet complete “On Your Own” exercises at the bottom of the page. Refer to your teacher for assistance. (NS 5-2.0, SDAP 5-1.0, MR 5-2.0, 5-3.0)
  5. 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.

**MATHEMATICS IID**  
**Course Outline: 3204**

**I. Textbook Assignment Options:**

A. *AGS Basic Mathematics, Part II (5.0 credits)*

- Complete: Chapters 8-13; even problems only (**omit:** “Applications” unless assigned under Extension Activities).
- Read and complete: all Chapter 12 problems.
- Complete: “Chapter Review” problems; even problems only.
- Complete: 1 Application Activity (Section A) and 1 Technology Activity (Section B) from the Extension Activities listed below.

B. *Pacemaker Basic Mathematics, Part II (5.0 credits)*

- Read and Complete: Chapters 10-18, all problems.
- Complete one Extension Activity from Section B.

**II. Extension Activities**

A. Application Activities

1. AGS, Chapter 9: “I’ve Got You Covered”
2. AGS, Chapter 13, “Chilly Integers”
3. Teacher generated activity, approved by the site administrator.

B. Technology Activities

1. Using a search engine, such as Yahoo or Google, search for auto.com. Choose 3 cars to research within a price range of \$15,000 to \$20,000. Click: “Buy a car” and select “classifieds”. Type in the price range and click “search.” For each of the three cars you select, assume that you will take out a 3-year loan. From the information gathered, record the following:
  - Interest rate
  - Loan term
  - Car model
  - Price + interest = loan total
  - Monthly payments

Make a decision about which car you will buy and write a paragraph explaining your decision.

## MATHEMATICS IID

2. Assume that you are searching for an apartment to rent. Go to the <http://www.apartments.com> website. Record the following information about 3 different apartments that you find to rent:
  - State, region and area
  - Name and location of the apartment
  - Rental amount per month
  - Amount of security deposit required
  - Utilities included? Yes/no
  - Total cost for 1 year, including deposit and utilities
  
3. 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.

Mathematics II E  
**Course Outline: 3205**

**I. Textbook Assignment Options:**

A. *Pacemaker Practical Mathematics for Consumers*, Part I (5.0 credits)

- Complete: all problems in Chapters 1-9 (omit Maintaining Skills)
- Complete: all problems in Chapter 1-9 “Chapter Reviews” and “Unit Reviews”

**II. Extension Activity Options:**

A. Complete: all the “Decision Making” and “On-The-Job Math” activities at the end of each chapter.

B. 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.

Mathematics II F  
**Course Outline: 3206**

**I. Textbook Assignment Options:**

A. *Pacemaker Practical Mathematics for Consumers, Part II (5.0credits)*

- Complete: all problems in Chapters 10-18 (omit Maintaining Skills)
- Complete: all problems in Chapter 10-18 “Chapter Reviews” and “Unit Reviews”

**II. Extension Activity Options:**

A. Complete: all the “Decision Making” and “On-The-Job Math” activities at the end of each chapter.

B. 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.