

Math 5

Scripted Lesson Plans



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INTRODUCTION

Math is a concept-oriented discipline that builds on prior mastery. Moving on from a concept without having mastered it to the next concept is fraught with possible problems. That is why we like Saxon Math in the grammar school years. Its three-steps-forward, two-steps-back way of building and reviewing minimizes such problems.

As you may have observed, we recommend Saxon Math ahead of the grade level recommended by the publisher. It is our opinion that, based on the experience of thousands of children, our knowledge of historic standards, and observation of other countries where math is a strong suit, this is quit reasonable. However, we realize that your children may not be ready to do this yet. Taking them from where they are is necessary. The pace at which you go from there is your call.

There are those children who are ready to tackle beyond the level that we recommend. Starting them higher would generally not be as effective as moving them faster.

With math, keeping them challenged without frustrating them is a key goal.

GRADE BY GRADE

Below is the grade-by-grade breakdown for Math.

<u>Grade</u>	<u>Curriculum</u>
Kindergarten	Saxon 1
1 st	Saxon 2
2 nd	Saxon 3
3 rd	Saxon 54
4 th	Saxon 65
5 th	Saxon 76
6 th	Saxon Algebra ½

BEFORE YOU BEGIN

1. For Saxon 1, 2 and 3
 - a. Read the Home Study Overview in the Teacher's Manual.
 - b. Refer to the Veritas Press Scholars Lesson Plans, Lesson 1 for Books and Materials that will be needed to begin.
 - c. You are ready to begin.
2. For Saxon 54, 65, 76 and Algebra ½
 - a. Become familiar with introductory materials.
 - b. Refer to the Veritas Press Scholars Lesson Plans, Lesson 1 for Books and Materials that will be needed to begin.
 - c. You are ready to begin.

ADDITIONAL THOUGHTS

Math textbook writers are known for expecting children to do every problem in every problem set. The folks at Saxon are no different. We agree with them in early levels and have generally not skipped any problems in what we recommend in the Lesson Plans through and including Saxon 65. Beginning with Saxon 76, there are times where

we don't see the necessity of doing all the problems. In such instances we have carefully selected the ones we believe most beneficial.

You will need to be the judge of whether your children are able to master the material as we have recommended. There will certainly be instances where doing more problems will be beneficial and there will be instances where even doing all that we recommend will not be the best use of the time available.

Adding Whole Numbers and Money • Subtracting Whole Numbers and Money • Fact Families, Part 1

BOOKS

Saxon 76 Textbook
Saxon 76 Tests and Worksheets
Saxon 76 Solutions

MATERIALS

Facts Practice Test A–64 Addition Facts, Tests and Worksheets, pg. 13
Recording Form A – Facts Practice
Recording Form B – Lesson Worksheet
Recording Form C – Mixed Practice Solutions
Recording Form D – Scorecard

OBJECTIVE

To review the basics of adding whole numbers and money with the child. To review the basics of subtracting whole numbers and money with the child. To review the concept of fact families with the child. To increase speed of recall of addition facts.

TEACHING

Have the child take Test A–64 Addition Facts. Record time and score on Recording Form A.

Do Lesson 1, pgs. 1–4 of textbook. Record solutions and work on Recording Form B.

ALERT: We have carefully selected a portion of the problems from the Mixed Practice pages. This was done because doing the whole problem set every time one is presented is both too time-consuming and unnecessary for the overwhelming majority of the children. It will be obvious in a couple lessons if this approach is working by the number of mistakes students make. It should be noted that mistakes can come from carelessness. If this becomes a persistent problem one thing that we have found to be effective is to require the children to redo the problems where they were careless. After a short time they will find that only having to do it once is better.

ALERT: Copies should be made of Recording Form A, B, C, D, and E, which can be found after pg. 241 of Tests and Worksheets. These will be used repeatedly throughout the course. Make additional copies as needed.

ASSIGNMENT

Mixed Practice, pgs. 4–5 of textbook

Suggested Questions: 1-25 odd

COMPLETED GRADED

Have child do the Mixed Practice on Recording Form C. Solutions for Lesson 1 are in Solutions Manual, pgs. 3–4. Record child's score on Recording Form D – Scorecard.

Multiplying Whole Numbers and Money • Dividing Whole Numbers and Money • Fact Families, Part 2

BOOKS

Saxon 76 – Homeschool Textbook
Saxon 76 – Homeschool Tests and Worksheets
Saxon 76 – Homeschool Solutions

MATERIALS

Facts Practice Test A–64 Addition Facts, Tests and Worksheets, pg. 14
Recording Form A – Facts Practice
Recording Form B – Lesson Worksheet
Recording Form C – Mixed Practice Solutions
Recording Form D – Scorecard

OBJECTIVE

To review the basics of multiplying whole numbers and money. To review the basics of dividing whole numbers and money. To review the concept of fact families. To increase speed of recall of addition facts.

TEACHING

Have the child take Test A–64 Addition Facts. Record time and score on Recording Form A.

Do Lesson 2, pgs. 6–10 of textbook. Record solutions and work on Recording Form B.

ALERT: For the child needing additional practice problems to master these concepts, have him complete the Supplemental Practice Problems on page 660. Solutions to these problems can be found in Solutions, pg. 269.

ASSIGNMENT

Mixed Practice, pgs. 10–11 of textbook

Suggested Questions: 1-6, 10-30 even

COMPLETED GRADED

Have the child do the Mixed Practice on Recording Form C. Solutions for Lesson 2 are in Solutions Manual, pgs. 4–6. Record the child’s score on Recording Form D – Scorecard.

Missing Numbers in Addition • Missing Numbers in Subtraction

BOOKS

Saxon 76 Textbook
Saxon 76 Tests and Worksheets
Saxon 76 Solutions

MATERIALS

Facts Practice Test B–100 Addition Facts, Tests and Worksheets, pg. 15
Recording Form A – Facts Practice
Recording Form B – Lesson Worksheet
Recording Form C – Mixed Practice Solutions
Recording Form D – Scorecard

OBJECTIVE

To teach the child to calculate missing numbers in addition and subtraction problems. To increase speed of recall of addition facts.

TEACHING

Have the child take Test B–100 Addition Facts. Record time and score on Recording Form A.

Do Lesson 3, pgs. 12–15 of textbook. Record solutions and work on Recording Form B.

ALERT: For the child needing additional practice problems to master this concept, have him complete the Supplemental Practice Problems on pg. 661. Solutions to these problems can be found in Solutions, pg. 270.

ASSIGNMENT

Mixed Practice, pgs. 15–16 of textbook

Suggested Questions: 2-16 even, 17-24, 26-30

COMPLETED GRADED

Have child do the Mixed Practice on Recording Form C. Solutions for Lesson 3 are in Solutions Manual, pgs. 6–8. Record child's score on Recording Form D – Scorecard.

Missing Numbers in Multiplication • Missing Numbers in Division

BOOKS

Saxon 76 Textbook
Saxon 76 Tests and Worksheets
Saxon 76 Solutions

MATERIALS

Facts Practice Test A–64 Addition Facts, Tests and Worksheets, pg. 16
Recording Form A – Facts Practice
Recording Form B – Lesson Worksheet
Recording Form C – Mixed Practice Solutions
Recording Form D – Scorecard

OBJECTIVE

To teach the child to calculate the missing numbers in multiplication and division problems. To increase speed of recall of addition facts.

TEACHING

Have the child take Test A–64 Addition Facts. Record time and score on Recording Form A.

Do Lesson 4, pgs. 17–19 of textbook. Record solutions and work on Recording Form B.

ALERT: For the child needing additional practice problems to master this concept, have him complete the Supplemental Practice Problems on pg. 661. Solutions to these problems can be found in Solutions, pg. 270.

ASSIGNMENT

Mixed Practice, pgs. 19–21 of textbook

Suggested Questions: 2-6 even, 7-15, 22, 23, 28-30

COMPLETED GRADED

Have child do the Mixed Practice on Recording Form C. Solutions for Lesson 4 are in Solutions Manual, pgs. 8–11. Record child's score on Recording Form D – Scorecard.

Order of Operations, Part 1

BOOKS

Saxon 76 Textbook
Saxon 76 Tests and Worksheets
Saxon 76 Solutions

MATERIALS

Facts Practice Test B–100 Addition Facts, Tests and Worksheets, pg. 17
Recording Form A – Facts Practice
Recording Form B – Lesson Worksheet
Recording Form C – Mixed Practice Solutions
Recording Form D – Scorecard

OBJECTIVE

To teach the child the order in which to perform calculations in an arithmetic problem. To increase speed of recall of addition facts.

TEACHING

Have the child take Test B–100 Addition Facts. Record time and score on Recording Form A.

Do Lesson 5, pgs. 22–24 of textbook. Record solutions and work on Recording Form B.

ASSIGNMENT

Mixed Practice, pgs. 24–25 of textbook

Suggested Questions: 2-5, 7-16, 18-30 even

COMPLETED GRADED

Have child do the Mixed Practice on Recording Form C. Solutions for Lesson 5 are in Solutions Manual, pgs. 11–13. Record child's score on Recording Form D – Scorecard.

Fractional Parts

BOOKS

Saxon 76 Textbook
Saxon 76 Tests and Worksheets
Saxon 76 Solutions

MATERIALS

Facts Practice Test C–100 Subtraction Facts, Tests and Worksheets, pg. 18
Recording Form A – Facts Practice
Recording Form B – Lesson Worksheet
Recording Form C – Mixed Practice Solutions
Recording Form D – Scorecard

OBJECTIVE

To review fractional parts with the child. To increase speed of recall of subtraction facts.

TEACHING

Have the child take Test A–64 Addition Facts. Record time and score on Recording Form A.

Do Lesson 6, pgs. 26–28 of textbook. Record solutions and work on Recording Form B.

ASSIGNMENT

Mixed Practice, pgs. 28–29 of textbook

Suggested Questions: 1-17 odd, 18-30 even

COMPLETED GRADED

Have child do the Mixed Practice on Recording Form C. Solutions for Lesson 6 are in Solutions Manual, pgs. 13–15. Record child's score on Recording Form D – Scorecard.

Lines, Segments, and Rays • Linear Measure

BOOKS

Saxon 76 Textbook
Saxon 76 Tests and Worksheets
Saxon 76 Solutions

MATERIALS

Facts Practice Test C–100 Subtraction Facts, Tests and Worksheets, pg. 19
Inch Ruler
Narrow Strip of Tagboard about 6 inches long and 1 inch wide
Pencil
Recording Form A – Facts Practice
Recording Form B – Lesson Worksheet
Recording Form C – Mixed Practice Solutions
Recording Form D – Scorecard

OBJECTIVE

To teach the child to identify and measure lines, segments, and rays. To increase speed of recall of subtraction facts.

TEACHING

Have the child take Test C–100 Subtraction Facts. Record time and score on Recording Form A.

Do Lesson 7, pgs. 30–33 of textbook. Record solutions and work on Recording Form B.

ASSIGNMENT

Mixed Practice, pgs. 33–34 of textbook

Suggested Questions: 2-22 even, 24-30

COMPLETED GRADED

Have child do the Mixed Practice on Recording Form C. Solutions for Lesson 7 are in Solutions Manual, pgs. 16–17. Record child's score on Recording Form D – Scorecard.

Perimeter

BOOKS

Saxon 76 Textbook
Saxon 76 Tests and Worksheets
Saxon 76 Solutions

MATERIALS

Facts Practice Test A–64 Addition Facts, Tests and Worksheets, pg. 20
Recording Form A – Facts Practice
Recording Form B – Lesson Worksheet
Recording Form C – Mixed Practice Solutions
Recording Form D – Scorecard

OBJECTIVE

To teach the child to calculate the perimeter of a shape. To increase speed of recall of addition facts.

TEACHING

Have the child take Test A–64 Addition Facts. Record time and score on Recording Form A.

Do Lesson 8, pgs. 35–37 of textbook. Record solutions and work on Recording Form B.

ASSIGNMENT

Mixed Practice, pgs. 37–38 of textbook

Suggested Questions: 2-30 even

COMPLETED GRADED

Have child do the Mixed Practice on Recording Form C. Solutions for Lesson 8 are in Solutions Manual, pgs. 17–19. Record child's score on Recording Form D – Scorecard.

The Number Line: Ordering and Comparing

BOOKS

Saxon 76 Textbook
Saxon 76 Tests and Worksheets
Saxon 76 Solutions

MATERIALS

Facts Practice Test C–100 Subtraction Facts, Tests and Worksheets, pg. 21
Recording Form A – Facts Practice
Recording Form B – Lesson Worksheet
Recording Form C – Mixed Practice Solutions
Recording Form D – Scorecard

OBJECTIVE

To teach the child to order and compare numbers using the number line and mathematical symbols. To increase speed of recall of subtraction facts.

TEACHING

Have the child take Test C–100 Subtraction Facts. Record time and score on Recording Form A.

Do Lesson 9, pgs. 39–41 of textbook. Record solutions and work on Recording Form B.

ASSIGNMENT

Mixed Practice, pgs. 41–42 of textbook

Suggested Questions: 3-21 odd, 25-30

COMPLETED GRADED

Have child do the Mixed Practice on Recording Form C. Solutions for Lesson 9 are in Solutions Manual, pgs. 20–21. Record child's score on Recording Form D – Scorecard.

Sequences • Scales

BOOKS

Saxon 76 Textbook
Saxon 76 Tests and Worksheets
Saxon 76 Solutions

MATERIALS

Facts Practice Test C–100 Subtraction Facts, Tests and Worksheets, pg. 22
Recording Form A – Facts Practice
Recording Form B – Lesson Worksheet
Recording Form C – Mixed Practice Solutions
Recording Form D – Scorecard

OBJECTIVE

To teach the child to identify sequences. To teach the child about two commonly used scales on thermometers. To increase speed of recall of subtraction facts.

TEACHING

Have the child take Test C–100 Subtraction Facts. Record time and score on Recording Form A.

Do Lesson 10, pgs. 43–45 of textbook. Record solutions and work on Recording Form B.

ASSIGNMENT

Mixed Practice, pgs. 45–47 of textbook

Suggested Questions: 1-8, 13-29 odd, 30

COMPLETED GRADED

Have child do the Mixed Practice on Recording Form C. Solutions for Lesson 10 are in Solutions Manual, pgs. 21–23. Record child's score on Recording Form D – Scorecard.

Test 1

BOOKS

Saxon 76 Tests and Worksheets
Saxon 76 Solutions Manual

MATERIALS

Facts Practice Test A–64 Addition Facts, Tests and Worksheets, pg. 23
Test #1, Tests and Worksheets, pg. 195
Recording Form D – Scorecard
Recording Form E – Test Solutions

OBJECTIVE

To evaluate the child’s understanding of the material through a written assessment. To increase speed of recall of addition facts.

TEACHING

Have the child do Facts Practice Test A–64 Addition Facts. Record time and score on Recording Form A.

Have the child take Test 1 using Recording Form E to record answers and work. Correct test problems using solutions on page 315 of the Solutions Manual. Record score on Recording Form D – Scorecard.

ASSIGNMENT

None

Investigation 1 – Frequency Tables • Histograms • Surveys

BOOKS

Saxon 76 – Homeschool [Textbook](#)
Saxon 76 – Homeschool [Solutions Manual](#)
Saxon 76 – Homeschool [Tests and Worksheets](#)

MATERIALS

Pencil and paper

OBJECTIVE

To teach the child to read and display data using frequency tables and histograms. To teach the child to conduct a survey to collect data and to recognize the difference between a closed-option survey and an open-option survey.

TEACHING

Do Investigation 1, pgs. 48–51.

Solutions to the problems in Investigation 1 are found on pages 23–24 of the [Solutions Manual](#).

ASSIGNMENT

None

Problems about Combining • Problems about Separating

BOOKS

Saxon 76 Textbook
Saxon 76 Tests and Worksheets
Saxon 76 Solutions

MATERIALS

Facts Practice Test D–64 Multiplication Facts, Tests and Worksheets, pg. 24
Recording Form A – Facts Practice
Recording Form B – Lesson Worksheet
Recording Form C – Mixed Practice Solutions
Recording Form D – Scorecard

OBJECTIVE

To teach the child to identify the pattern in a mathematical word problem, set up the appropriate equation and solve the problem for stories about combining and separating. To increase speed of recall of multiplication facts.

TEACHING

Have the child take Test D–64 Multiplication Facts. Record time and score on Recording Form A.

Do Lesson 11, pgs. 52–55 of textbook. Record solutions and work on Recording Form B.

ASSIGNMENT

Mixed Practice, pgs. 55–57 of textbook

Suggested Questions: 1-5, 9-27 odd, 30

COMPLETED GRADED

Have the child do the Mixed Practice on Recording Form C. Solutions for Lesson 11 are in Solutions Manual, pgs. 24–26. Record child's score on Recording Form D – Scorecard.