

Enhanced Homeschool Math Success Checklist

Student Name: _____

Current Grade Level: _____

School Year: _____

Parent/Teacher: _____

Start Date: _____

Target Completion Date: _____

How to Use This Enhanced Checklist:

- This comprehensive guide covers Pre-K through 8th grade math skills
- Each grade includes: Core Skills, Recommended Activities, and Assessment Milestones
- Use the progress tracking tables to monitor skill development
- Check off skills as they are mastered and record dates
- Use the activity suggestions to reinforce learning
- Regular assessments help identify areas needing extra attention
- Celebrate achievements and adjust pace as needed for your child's learning style

Table of Contents

Pre-K (Ages 3-4) Page 3

Kindergarten (Ages 5-6) Page 5

1st Grade (Ages 6-7) Page 7

2nd Grade (Ages 7-8) Page 9

3rd Grade (Ages 8-9) Page 11

4th Grade (Ages 9-10) Page 13

5th Grade (Ages 10-11) Page 15

6th Grade (Ages 11-12) Page 17

7th Grade (Ages 12-13) Page 19

8th Grade (Ages 13-14) Page 21

Pre-K (Ages 3-4)

Core Skills Progress Tracking

Skill	Not Started	Learning	Practicing	Mastered	Date Achieved
Count objects 1-10	■	■	■	■	___/___/___
Recognize numbers 1-5	■	■	■	■	___/___/___
Sort objects by size, color, shape	■	■	■	■	___/___/___
Basic shape recognition (circle, square, triangle)	■	■	■	■	___/___/___
Simple patterns (AB, ABC)	■	■	■	■	___/___/___
More/less comparison with objects	■	■	■	■	___/___/___
One-to-one correspondence	■	■	■	■	___/___/___
Basic spatial concepts (in/out, up/down)	■	■	■	■	___/___/___

Progress Legend: Not Started = Concept not yet introduced | Learning = Being taught, needs support | Practicing = Can do with minimal help | Mastered = Demonstrates understanding independently

Pre-K (Ages 3-4) - Activities & Assessments

Recommended Learning Activities

Recommended Activity	Materials Needed	Completed	Notes
Counting songs and finger plays		■	
Shape sorting games		■	
Pattern blocks activities		■	
Number books and stories		■	

Assessment Milestones

Assessment Milestone	Date Tested	Passed	Needs Review	Notes
Can count 5 objects accurately	___/___/___	■	■	
Identifies basic shapes in environment	___/___/___	■	■	
Creates simple AB patterns	___/___/___	■	■	

Pre-K (Ages 3-4) Completion Notes:

Overall Progress: _____
Strengths: _____
Areas for Improvement: _____
Date Grade Completed: _____
Parent Signature: _____

Kindergarten (Ages 5-6)

Core Skills Progress Tracking

Skill	Not Started	Learning	Practicing	Mastered	Date Achieved
Count to 100 by ones and tens	■	■	■	■	___/___/___
Write numbers 0-20	■	■	■	■	___/___/___
Basic addition/subtraction with objects (within 10)	■	■	■	■	___/___/___
Identify and describe 2D and 3D shapes	■	■	■	■	___/___/___
Compare numbers using greater/less than	■	■	■	■	___/___/___
Understand addition as putting together	■	■	■	■	___/___/___
Understand subtraction as taking apart	■	■	■	■	___/___/___
Classify objects and count by categories	■	■	■	■	___/___/___

Progress Legend: Not Started = Concept not yet introduced | Learning = Being taught, needs support | Practicing = Can do with minimal help | Mastered = Demonstrates understanding independently

Kindergarten (Ages 5-6) - Activities & Assessments

Recommended Learning Activities

Recommended Activity	Materials Needed	Completed	Notes
Number line activities		■	
Manipulative-based math (blocks, counters)		■	
Shape scavenger hunts		■	
Measurement with non-standard units		■	

Assessment Milestones

Assessment Milestone	Date Tested	Passed	Needs Review	Notes
Counts to 100 without assistance	___/___/___	■	■	
Solves addition/subtraction problems within 10	___/___/___	■	■	
Writes numbers 0-20 legibly	___/___/___	■	■	

Kindergarten (Ages 5-6) Completion Notes:

Overall Progress: _____
Strengths: _____
Areas for Improvement: _____
Date Grade Completed: _____
Parent Signature: _____

1st Grade (Ages 6-7)

Core Skills Progress Tracking

Skill	Not Started	Learning	Practicing	Mastered	Date Achieved
Add and subtract within 20 fluently	■	■	■	■	___/___/___
Understand place value (tens and ones)	■	■	■	■	___/___/___
Tell and write time to hour and half-hour	■	■	■	■	___/___/___
Measure lengths with non-standard units	■	■	■	■	___/___/___
Organize and interpret data with graphs	■	■	■	■	___/___/___
Partition circles and rectangles into halves/fourths	■	■	■	■	___/___/___
Count by 2s, 5s, and 10s	■	■	■	■	___/___/___
Word problem strategies for addition/subtraction	■	■	■	■	___/___/___

Progress Legend: Not Started = Concept not yet introduced | Learning = Being taught, needs support | Practicing = Can do with minimal help | Mastered = Demonstrates understanding independently

1st Grade (Ages 6-7) - Activities & Assessments

Recommended Learning Activities

Recommended Activity	Materials Needed	Completed	Notes
Base-10 blocks for place value		■	
Clock practice with daily routines		■	
Measurement stations with rulers		■	
Graphing family data (pets, favorite foods)		■	

Assessment Milestones

Assessment Milestone	Date Tested	Passed	Needs Review	Notes
Addition/subtraction facts within 20 in 3 minutes	___/___/___	■	■	
Tells time to nearest half-hour	___/___/___	■	■	
Explains place value of 2-digit numbers	___/___/___	■	■	

1st Grade (Ages 6-7) Completion Notes:

Overall Progress: _____

Strengths: _____

Areas for Improvement: _____

Date Grade Completed: _____

Parent Signature: _____

2nd Grade (Ages 7-8)

Core Skills Progress Tracking

Skill	Not Started	Learning	Practicing	Mastered	Date Achieved
Add and subtract within 100 using strategies	■	■	■	■	___/___/___
Understand place value to hundreds	■	■	■	■	___/___/___
Measure and estimate lengths in standard units	■	■	■	■	___/___/___
Work with time and money	■	■	■	■	___/___/___
Represent and interpret data	■	■	■	■	___/___/___
Recognize and draw shapes with attributes	■	■	■	■	___/___/___
Partition rectangles into equal parts	■	■	■	■	___/___/___
Skip counting patterns and odd/even numbers	■	■	■	■	___/___/___

Progress Legend: Not Started = Concept not yet introduced | Learning = Being taught, needs support | Practicing = Can do with minimal help | Mastered = Demonstrates understanding independently

2nd Grade (Ages 7-8) - Activities & Assessments

Recommended Learning Activities

Recommended Activity	Materials Needed	Completed	Notes
Money counting games and store play		■	
Measurement comparison activities		■	
Data collection projects		■	
Geometric shape building		■	

Assessment Milestones

Assessment Milestone	Date Tested	Passed	Needs Review	Notes
Solves 2-digit addition/subtraction within 5 minutes	___/___/___	■	■	
Counts money combinations up to \$1.00	___/___/___	■	■	
Measures objects to nearest inch/centimeter	___/___/___	■	■	

2nd Grade (Ages 7-8) Completion Notes:

Overall Progress: _____

Strengths: _____

Areas for Improvement: _____

Date Grade Completed: _____

Parent Signature: _____

3rd Grade (Ages 8-9)

Core Skills Progress Tracking

Skill	Not Started	Learning	Practicing	Mastered	Date Achieved
Multiply and divide within 100 fluently	■	■	■	■	___/___/___
Understand fractions as numbers on number line	■	■	■	■	___/___/___
Solve word problems using all four operations	■	■	■	■	___/___/___
Find area and perimeter of rectangles	■	■	■	■	___/___/___
Tell time to nearest minute	■	■	■	■	___/___/___
Measure mass and volume	■	■	■	■	___/___/___
Understand properties of multiplication	■	■	■	■	___/___/___
Round numbers to nearest 10 or 100	■	■	■	■	___/___/___

Progress Legend: Not Started = Concept not yet introduced | Learning = Being taught, needs support | Practicing = Can do with minimal help | Mastered = Demonstrates understanding independently

3rd Grade (Ages 8-9) - Activities & Assessments

Recommended Learning Activities

Recommended Activity	Materials Needed	Completed	Notes
Multiplication arrays and skip counting		■	
Fraction circles and bars		■	
Area and perimeter with grid paper		■	
Multi-step word problem solving		■	

Assessment Milestones

Assessment Milestone	Date Tested	Passed	Needs Review	Notes
Multiplication facts 0-12 in 5 minutes	___/___/___	■	■	
Identifies equivalent fractions with models	___/___/___	■	■	
Solves multi-step word problems independently	___/___/___	■	■	

3rd Grade (Ages 8-9) Completion Notes:

Overall Progress: _____

Strengths: _____

Areas for Improvement: _____

Date Grade Completed: _____

Parent Signature: _____

4th Grade (Ages 9-10)

Core Skills Progress Tracking

Skill	Not Started	Learning	Practicing	Mastered	Date Achieved
Multi-digit multiplication and division	■	■	■	■	___/___/___
Generate equivalent fractions	■	■	■	■	___/___/___
Add and subtract fractions with like denominators	■	■	■	■	___/___/___
Understand decimal notation for fractions	■	■	■	■	___/___/___
Convert measurements within single systems	■	■	■	■	___/___/___
Classify geometric figures by properties	■	■	■	■	___/___/___
Analyze and create patterns	■	■	■	■	___/___/___
Solve multi-step word problems with remainders	■	■	■	■	___/___/___

Progress Legend: Not Started = Concept not yet introduced | Learning = Being taught, needs support | Practicing = Can do with minimal help | Mastered = Demonstrates understanding independently

4th Grade (Ages 9-10) - Activities & Assessments

Recommended Learning Activities

Recommended Activity	Materials Needed	Completed	Notes
Long multiplication and division algorithms		■	
Fraction equivalence with manipulatives		■	
Decimal place value activities		■	
Geometry classification charts		■	

Assessment Milestones

Assessment Milestone	Date Tested	Passed	Needs Review	Notes
Multiplies 4-digit by 1-digit numbers accurately	___/___/___	■	■	
Adds/subtracts fractions with like denominators	___/___/___	■	■	
Converts between fractions and decimals	___/___/___	■	■	

4th Grade (Ages 9-10) Completion Notes:

Overall Progress: _____

Strengths: _____

Areas for Improvement: _____

Date Grade Completed: _____

Parent Signature: _____

5th Grade (Ages 10-11)

Core Skills Progress Tracking

Skill	Not Started	Learning	Practicing	Mastered	Date Achieved
Add, subtract, multiply, and divide fractions	■	■	■	■	___/___/___
Understand volume as attribute of 3D figures	■	■	■	■	___/___/___
Graph points on coordinate plane	■	■	■	■	___/___/___
Perform operations with decimals to hundredths	■	■	■	■	___/___/___
Convert measurements within and between systems	■	■	■	■	___/___/___
Classify 2D figures in hierarchy	■	■	■	■	___/___/___
Analyze numerical patterns and relationships	■	■	■	■	___/___/___
Apply order of operations	■	■	■	■	___/___/___

Progress Legend: Not Started = Concept not yet introduced | Learning = Being taught, needs support | Practicing = Can do with minimal help | Mastered = Demonstrates understanding independently

5th Grade (Ages 10-11) - Activities & Assessments

Recommended Learning Activities

Recommended Activity	Materials Needed	Completed	Notes
Fraction operations with visual models		■	
Volume experiments with unit cubes		■	
Coordinate graphing activities		■	
Decimal computation practice		■	

Assessment Milestones

Assessment Milestone	Date Tested	Passed	Needs Review	Notes
Solves fraction word problems accurately	___/___/___	■	■	
Calculates volume of rectangular prisms	___/___/___	■	■	
Graphs coordinate pairs correctly	___/___/___	■	■	

5th Grade (Ages 10-11) Completion Notes:

Overall Progress: _____

Strengths: _____

Areas for Improvement: _____

Date Grade Completed: _____

Parent Signature: _____

6th Grade (Ages 11-12)

Core Skills Progress Tracking

Skill	Not Started	Learning	Practicing	Mastered	Date Achieved
Understand ratios and rates	■	■	■	■	___/___/___
Solve unit rate problems	■	■	■	■	___/___/___
Understand and use percent	■	■	■	■	___/___/___
Work with positive and negative integers	■	■	■	■	___/___/___
Write and evaluate algebraic expressions	■	■	■	■	___/___/___
Solve one-variable equations and inequalities	■	■	■	■	___/___/___
Find area of triangles and quadrilaterals	■	■	■	■	___/___/___
Display and analyze statistical data	■	■	■	■	___/___/___

Progress Legend: Not Started = Concept not yet introduced | Learning = Being taught, needs support | Practicing = Can do with minimal help | Mastered = Demonstrates understanding independently

6th Grade (Ages 11-12) - Activities & Assessments

Recommended Learning Activities

Recommended Activity	Materials Needed	Completed	Notes
Ratio and proportion real-world problems		■	
Integer operations with number lines		■	
Algebraic expression modeling		■	
Statistical data collection projects		■	

Assessment Milestones

Assessment Milestone	Date Tested	Passed	Needs Review	Notes
Solves ratio and rate problems	___/___/___	■	■	
Evaluates algebraic expressions	___/___/___	■	■	
Analyzes statistical displays	___/___/___	■	■	

6th Grade (Ages 11-12) Completion Notes:

Overall Progress: _____

Strengths: _____

Areas for Improvement: _____

Date Grade Completed: _____

Parent Signature: _____

7th Grade (Ages 12-13)

Core Skills Progress Tracking

Skill	Not Started	Learning	Practicing	Mastered	Date Achieved
Add, subtract, multiply, and divide rational numbers	■	■	■	■	___/___/___
Solve multi-step real-life mathematical problems	■	■	■	■	___/___/___
Use properties of operations for equivalent expressions	■	■	■	■	___/___/___
Solve real-life problems using linear equations	■	■	■	■	___/___/___
Draw geometric shapes with given conditions	■	■	■	■	___/___/___
Describe relationships between angles	■	■	■	■	___/___/___
Solve problems involving scale drawings	■	■	■	■	___/___/___
Use random sampling to draw inferences	■	■	■	■	___/___/___

Progress Legend: Not Started = Concept not yet introduced | Learning = Being taught, needs support | Practicing = Can do with minimal help | Mastered = Demonstrates understanding independently

7th Grade (Ages 12-13) - Activities & Assessments

Recommended Learning Activities

Recommended Activity	Materials Needed	Completed	Notes
Rational number operations practice		■	
Multi-step equation solving		■	
Geometric construction activities		■	
Statistical inference projects		■	

Assessment Milestones

Assessment Milestone	Date Tested	Passed	Needs Review	Notes
Operates with rational numbers fluently	___/___/___	■	■	
Solves linear equations in one variable	___/___/___	■	■	
Constructs geometric figures accurately	___/___/___	■	■	

7th Grade (Ages 12-13) Completion Notes:

Overall Progress: _____

Strengths: _____

Areas for Improvement: _____

Date Grade Completed: _____

Parent Signature: _____

8th Grade (Ages 13-14)

Core Skills Progress Tracking

Skill	Not Started	Learning	Practicing	Mastered	Date Achieved
Work with radicals and integer exponents	■	■	■	■	___/___/___
Understand and apply linear functions	■	■	■	■	___/___/___
Analyze and solve systems of linear equations	■	■	■	■	___/___/___
Understand congruence and similarity	■	■	■	■	___/___/___
Apply Pythagorean Theorem	■	■	■	■	___/___/___
Solve problems involving volume of cylinders, cones, spheres	■	■	■	■	___/___/___
Investigate patterns of association in bivariate data	■	■	■	■	___/___/___
Understand and apply scientific notation	■	■	■	■	___/___/___

Progress Legend: Not Started = Concept not yet introduced | Learning = Being taught, needs support | Practicing = Can do with minimal help | Mastered = Demonstrates understanding independently

8th Grade (Ages 13-14) - Activities & Assessments

Recommended Learning Activities

Recommended Activity	Materials Needed	Completed	Notes
Exponent rules exploration		■	
Linear function graphing		■	
Pythagorean Theorem applications		■	
Volume calculations with real objects		■	

Assessment Milestones

Assessment Milestone	Date Tested	Passed	Needs Review	Notes
Graphs linear functions accurately	___/___/___	■	■	
Applies Pythagorean Theorem to solve problems	___/___/___	■	■	
Uses scientific notation appropriately	___/___/___	■	■	

8th Grade (Ages 13-14) Completion Notes:

Overall Progress: _____
Strengths: _____
Areas for Improvement: _____
Date Grade Completed: _____
Parent Signature: _____

Homeschool Math Resources & Tips

Recommended Math Curricula:

■ Saxon Math ■ Math-U-See ■ Teaching Textbooks ■ Beast Academy ■ Singapore Math
■ Khan Academy ■ IXL Math ■ Other: _____

Essential Math Manipulatives by Grade:

Pre-K - 2nd Grade: Counting bears, pattern blocks, base-10 blocks, fraction circles

3rd - 5th Grade: Multiplication charts, geometric solids, measuring tools, calculators

6th - 8th Grade: Algebra tiles, graphing paper, protractors, scientific calculators

Online Resources:

- Khan Academy (free video lessons and practice)
- IXL Math (comprehensive practice platform)
- Prodigy Math (game-based learning)
- DragonBox (algebra apps for younger learners)
- GeoGebra (interactive geometry, algebra, and calculus)

Assessment and Testing Options:

- Weekly skill quizzes • Monthly progress tests • Quarterly comprehensive reviews
- Standardized tests (CAT, Iowa, Stanford) • Portfolio assessments
- State-required testing • College entrance exam prep (SAT, ACT)

Tips for Math Success:

- Practice mental math daily (5-10 minutes)
- Connect math to real-life situations
- Use visual and hands-on approaches
- Celebrate small victories and progress
- Don't rush - mastery is more important than speed
- Seek help when needed - tutoring, co-ops, online support

Record Keeping Notes:

Multi-Year Progress Summary

Overall Math Journey Summary:

Grades Completed:

Pre-K: ■ Started ____/____ Completed ____/____
Kindergarten: ■ Started ____/____ Completed ____/____
1st Grade: ■ Started ____/____ Completed ____/____
2nd Grade: ■ Started ____/____ Completed ____/____
3rd Grade: ■ Started ____/____ Completed ____/____
4th Grade: ■ Started ____/____ Completed ____/____
5th Grade: ■ Started ____/____ Completed ____/____
6th Grade: ■ Started ____/____ Completed ____/____
7th Grade: ■ Started ____/____ Completed ____/____
8th Grade: ■ Started ____/____ Completed ____/____

Student's Math Strengths:

Areas of Continued Growth:

Favorite Math Topics/Activities:

High School Math Readiness:

■ Ready for Algebra I ■ Needs Pre-Algebra review ■ Advanced/Ready for Geometry

Parent/Teacher Final Comments:

Date Completed: _____ Parent Signature: _____