

Introduction

This guide is designed to help parents estimate their child's current mathematics ability level at home. It covers

How to Use This Guide

1. Choose the grade level closest to your child's current level.
2. Ask your child to complete a few tasks or answer questions orally.
3. Observe how easily they respond and where they struggle.
4. Use this insight to support their learning or communicate with educators.

Kindergarten - Grade 2

- Recognizes and writes numbers up to 100
- Counts objects accurately up to 20
- Understands basic addition and subtraction within 10
- Recognizes simple shapes (circle, square, triangle)
- Can describe positions using terms like 'above', 'below', 'next to'
- Can measure length using non-standard units (blocks, fingers)

Grades 3 - 5

- Adds and subtracts multi-digit numbers
- Understands multiplication and division facts up to 1212
- Works with fractions (e.g., halves, thirds, quarters)
- Tells time to the nearest minute
- Understands basic concepts of area and perimeter
- Interprets simple bar graphs and line plots

Grades 6 - 8

- Understands ratios, proportions, and percentages
- Adds, subtracts, multiplies, and divides fractions and decimals
- Solves basic algebraic expressions (e.g., $2x + 3 = 7$)
- Understands coordinate planes and plotting points (x, y)
- Applies formulas for area, volume, and surface area
- Analyzes data using mean, median, mode, and range

Grades 9 - 12

- Solves linear and quadratic equations
- Understands functions and can interpret function notation
- Works with exponents, radicals, and polynomials
- Understands basic trigonometric functions and identities
- Analyzes and interprets statistical data sets
- Applies concepts of probability to real-world situations

Additional Tips for Parents

- Create a comfortable environment to avoid test anxiety.
- Praise effort and curiosity, not just correct answers.
- Use daily situations (shopping, cooking, games) as math opportunities.
- Keep track of areas where your child excels or struggles.
- Use this guide to start a conversation with teachers if needed.

Conclusion

Understanding your child's math skills helps you support their learning journey more effectively. This guide is m