Homeschool Math Resource Guide

Complete Guide to Math Resources for Homeschool Families

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Includes:

- Complete curriculum reviews and comparisons
- Online learning platforms and tools
- Free resources and websites
- Supplemental materials and games
- Special needs accommodations
- Advanced and gifted student options
- Cost breakdowns and recommendations

How to Use This Guide:

- Review curriculum comparison chart first
- Identify your child's learning style and needs
- Start with free resources to test approaches
- Consider your budget and time constraints
- Mix and match resources as needed

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Curriculum Comparison Chart

Quick overview of popular complete curricula

Curriculum	Teaching Style	Grade Range	Difficulty F	arent Involvemer	nt Cost Range
Singapore Math	Conceptual	K-8	Medium-High	Medium	\$150-300/year
Math-U-See	Visual/Hands-on	K-12	Medium	Low-Medium	\$200-400/year
Beast Academy	Problem Solving	2-8	High	Medium	\$100-200/year
Saxon Math	Traditional	K-12	Medium	Low	\$100-250/year
Teaching Textbooks	Self-Teaching	3-12	Medium	Very Low	\$300-500/year
Khan Academy	Video-based	K-12	Variable	Low	FREE

Cost Legend: \$ = Under \$50/year | \$\$ = \$50-150/year | \$\$\$ = \$150-300/year | \$\$\$\$ = \$300+/year

Parent Involvement: Very Low = child works independently | Low = minimal daily guidance | Medium = regular instruction needed | High = significant daily teaching required

Complete Curricula

Comprehensive math programs that provide structured scope and sequence for the entire school year.

Resource	Description	Website	Grades	Cost
Singapore Math	Concrete-Pictorial-Abstract approach, build	s sie ngaporemath.com	All grades	\$\$\$
Math-U-See	Multi-sensory with manipulatives, DVD less	o ns athusee.com	K-12	\$\$\$
Beast Academy	Art of Problem Solving's challenging comic	b asa stacademy.com	2-8	\$\$\$\$
Saxon Math	Incremental development with continuous r	eง อ่น งุกpublishers.harcourt.cor	n K-12	\$\$\$
Teaching Textbooks	Self-teaching with built-in tutoring, automat	edeachingtextbooks.com	3-12	\$\$\$\$
RightStart Mathematics	Hands-on approach using AL Abacus, focu	seigbitstartmath.com	K-12	\$\$\$

Online Learning Platforms

Interactive websites and apps that provide math instruction and practice.

Resource	Description	Website	Grades	Cost
Khan Academy	Free comprehensive lessons K-12, mastery	∕-bkahsaendacademy.org	K-12	FREE
IXL Math	Adaptive practice with detailed analytics, co	vixLcom/math	PreK-12	\$\$
Prodigy Math	Game-based learning aligned to curriculum	s tanod igygame.com	K-8	\$
CTC Math	Short video lessons with practice, progress	tratcmath.com	K-12	\$\$
Aleks Math	Al-driven adaptive learning, comprehensive	ædeks.com	3-12	\$\$\$
Time4Learning	Self-paced online curriculum with automate	d tierce4learning.com	PreK-12	\$\$

Supplemental Resources

Materials to enhance your primary curriculum or provide extra practice in specific areas.

Resource	Description	Website	Grades	Cost
Life of Fred	Story-based math that integrates with litera	tulifeoffredmath.com	K-12	\$\$
Math Mammoth	Workbooks focusing on conceptual unders	a ındirilg mammoth.com	1-7	\$\$
Hands-On Equations	Algebra made visual using manipulatives a	ndobælnson.com	3-12	\$\$
Professor B Math	Video-based instruction with real-world app	liœxofessorbmath.com	6-12	\$\$\$
Number Lovin'	Creative math activities and games for eler	nemutanberlovin.com	K-6	\$
Math Games Books	Problem-solving puzzles and critical thinkin	g tabletopacademy.net	K-12	\$

Free Resources & Tools

High-quality educational resources available at no cost.

Resource	Description	Website	Grades	Cost
Desmos Graphing Calcu	afonee online graphing calculator with classro	odesmos.com/calculator	6-12	FREE
Math is Fun	Clear explanations, examples, and interact	vernauthsisfun.com	K-12	FREE
Coolmath Games	Educational math games that actually teacl	n cooroobmathgames.com	K-8	FREE
Math Open Reference	Interactive geometry reference with definition	onsnathopenref.com	6-12	FREE
Illuminations (NCTM)	Standards-based activities and lesson plan	s illuminations.nctm.org	K-12	FREE
Homeschool Math	Free worksheets, lessons, and curriculum of	ju hters eschoolmath.net	K-12	FREE

Advanced & Gifted Programs

Challenging materials and programs for mathematically talented students.

Resource	Description	Website	Grades	Cost
Art of Problem Solving	Rigorous courses for mathematically gifted	standofproblemsolving.com	6-12	\$\$\$\$
MATHCOUNTS	National middle school mathematics compe	titionthcounts.org	6-8	FREE
AMC Competitions	American Mathematics Competitions (AMC	&m AMO rg/.math-competitions	8-12	\$
Stanford EPGY	Online courses for academically talented ye	pu el pgy.stanford.edu	K-12	\$\$\$\$
Johns Hopkins CTY	Advanced mathematics courses for gifted l	eartyejtsu.edu	K-12	\$\$\$\$
Russian School of Math	After-school math program with online option	onsussianschool.com	K-12	\$\$\$

Special Needs Support

Resources designed for students with learning differences or special needs.

Resource	Description	Website	Grades	Cost
Touch Math	Multisensory approach using touchpoints fo	r trauchmath.com	K-3	\$\$\$
Right Brain Math	Visual and conceptual methods for right-bra	ainightbrainmath.com	K-6	\$\$
Making Math Real	Multisensory structured approach for learni	ngmoakingmathreal.org	K-12	\$\$\$\$
ModMath Paper	Graph paper designed to help with number	ahgondneanth.com	K-12	\$
Calculadder	Systematic drill program for math fact fluen	cycalculadder.com	K-6	\$\$
Times Tales	Memory tool for multiplication facts using vi	sutimestales.com	3-6	\$\$

Quick Reference Guide

STRUGGLING STUDENTS:

- Try Math-U-See or Teaching Textbooks for multi-sensory approach
- Use Khan Academy for free video explanations
- Consider Touch Math for early elementary

ADVANCED STUDENTS:

- Beast Academy or Art of Problem Solving for challenge
- MATHCOUNTS competitions for middle school
- Consider grade-level acceleration

VISUAL LEARNERS:

- Singapore Math for pictorial representations
- Right Brain Math for creative approaches
- Use manipulatives and visual aids

KINESTHETIC LEARNERS:

- Math-U-See with hands-on manipulatives
- RightStart Math with AL Abacus
- Incorporate movement and physical activities

BUDGET-CONSCIOUS FAMILIES:

- Start with Khan Academy (completely free)
- Use library books and free printables
- Consider used curriculum marketplaces
- Mix free resources with affordable supplements

BUSY PARENTS:

- Teaching Textbooks for independent learning
- Online programs like Time4Learning
- Automated grading and progress tracking

LITERATURE-BASED APPROACH:

- Life of Fred for story-based learning
- Living Math philosophy and resources
- Integrate math with real-world applications

TRADITIONAL APPROACH:

- Saxon Math for systematic spiral review
- · Consistent daily practice and drill
- Structured lesson plans and assessments