



MATH ROCKS

From the creators of



Let's solve the
middle-school math crisis.

Basic Skills for Big Kids

MATH ROCKS is a bold new curriculum booster that helps middle school students acquire **core math skills** they missed along the way so they can finally succeed.

Discouraged middle schoolers **need to be reengaged** if we expect them to learn. MATH ROCKS ties key math topics to a high-energy band-on-tour theme.

Show your students that math is **relevant to real life** – and it's **exhilarating**.

It's time to **rock out** with math.

Starring
critical math skills.



Fractions, decimals and percentages

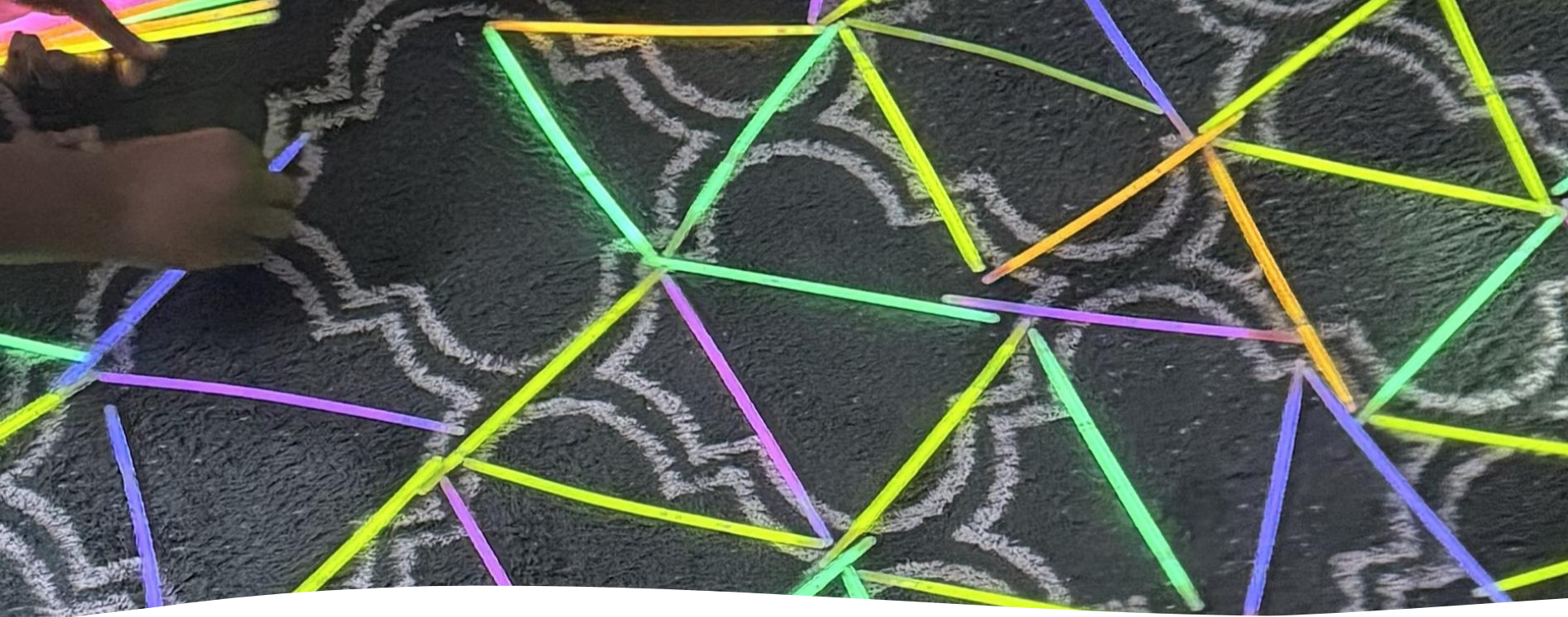
Students need to be “trilingual” in **fractions, decimals and percentages** to convert values fluidly in equations and word problems. Without this foundation, students cannot proceed to algebra.



Artist	Total Streams	Daily	Tracks
Drake	127,725,477,067	48,095,321	516
Taylor Swift	120,234,172,443	52,938,168	653
Bad Bunny	114,797,127,422	113,125,336	272
The Weeknd	90,199,757,062	35,525,295	320
Justin Bieber	71,271,526,272	31,050,836	332
Ariana Grande	55,242,425,002	23,971,766	351

Basic operations

When students can't perform **addition, subtraction, multiplication and division** on multi-digit numbers, they cannot advance to solving word problems or acquiring more advanced skills.



Multiples of digits up to 100

Many students don't know **multiples of digits up to 100**, or their multiples of 13, 17 and so on. When they attempt long division, homework that should be simple turns into hours of frustration.



Order of operations

When students do not understand the reasoning behind order operations, they cannot master word problems, often “pulling an operation out of a grab bag” instead of finding the rational approach. Mastering the reasoning **prepares students for algebraic thinking.**

How It Works

MATH ROCKS serves any student who is below proficiency, while still engaging students at or above grade level. Activities serve groups of 4 students, a proven effective size from high-dosage tutoring studies.

- Ten lessons solidify math skills **essential to cumulative learning**
 - ⚡ Fractions, decimals and percentages
 - ⚡ Place value
 - ⚡ Order of operations, multi-step word problems
 - ⚡ Math fact fluency
- Activities motivate students by showing the **real-life relevance** of skills
- Activities boost skills at key leverage points
 - ⚡ First 2-3 weeks of the school year
 - ⚡ Summer school/enrichment
 - ⚡ Ongoing weekly practice
- Fits **many formats**: full classroom, flex time, study hall, resource room

The Kit

As part of our nonprofit mission, Bedtime Math subsidizes the cost of MATH ROCKS. We ask schools to make a **cost-share contribution** of \$50 per set, plus \$10 for shipping.

That's **just \$1.25 per student per activity**.

Each kit includes:

- ⚡ Materials for 10 activities
- ⚡ Discussion prompts for small-group math talk
- ⚡ Digital teacher guides
- ⚡ Professional development (optional)

Research-Backed Concepts

MATH ROCKS is built on years of research-backed math content developed by Bedtime Math. It unites math talk, relevant real-life application and small-group screen-free learning to engage students and bring them to grade level.



University of Chicago study published in *Science* found kids who did **Bedtime Math** **improved their math skills by 3 months** in one school year.



Johns Hopkins study showed **Crazy 8s Club** **significantly reduced math anxiety** for elementary-age kids.



New Jersey Tutoring Corps found stronger gains for students who **used hands-on materials** from **Fun Factor** (the precursor to MATH ROCKS) compared to the control group.

See Appendix

The Line-Up: 10 Activities

Activity	Description	Skills
Band on Tour	Teams tour US cities, performing calculations with decimals along the way to determine their band's earnings.	Adding, subtracting, multiplying and dividing decimals
Spotify Me	How popular is the band? Compare Spotify streaming stats with the most popular artists to understand powers of 10.	Multi-digit numbers, powers of 10
Setlist Showdown	Evaluate expressions and tweak the setlist to hit a target show length.	Order of operations, decimals, converting units of time
Glow Big or Go Home	Master geometry basics by designing the stage floor and backdrop using glowing lattices.	Geometry, angles, division, estimation
Amp It Up	Calculate how much electricity is needed to power up the band's lighting and sound system.	Place value, decimals, unit conversion, order of operations
VIP Parking	The stadium is filling fast! Break it down with prime factors to see how many vehicles fit and how many fans that adds up to.	Order of operations, fluency with prime factors
Party in the Green Room	You just played a sold-out show! Compare fractions to figure out how many ways you can slice the cake to celebrate!	Fractions
Fuel Up	Plan the band's pre-show meal to hit a perfect ratio of carbs, protein and fat by using nutritional labels.	Order of operations, fractions, percentages
Roadie Load-in Challenge	Calculate how to load up the gear efficiently from one venue to the next.	Units of measure, area, volume
Show Me the Money	It's expensive to produce a concert! Crunch the numbers to see how many tickets you need to sell to break even.	Decimals, fractions, percentages, order of operations

Next Steps

Are you ready to amp up your students' math skills?
Schedule a call to discuss.

Contact:

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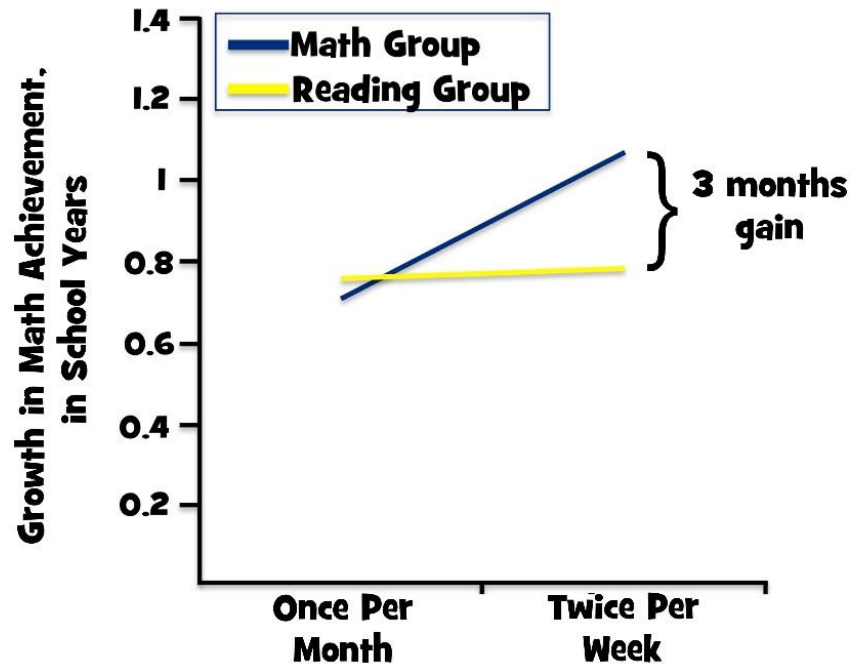
Appendix: Research Basis

Appendix A

Research - Bedtime Math

Proven concept: Math talk builds skills, reduces math anxiety

Details: University of Chicago found that kids who did Bedtime Math with their parents as little as once a week improved their math skills on average by **three months** more than kids who didn't use it. Kids were still ahead **two years later**.



Sources: [Science](#), [Journal of Experimental Psychology](#)

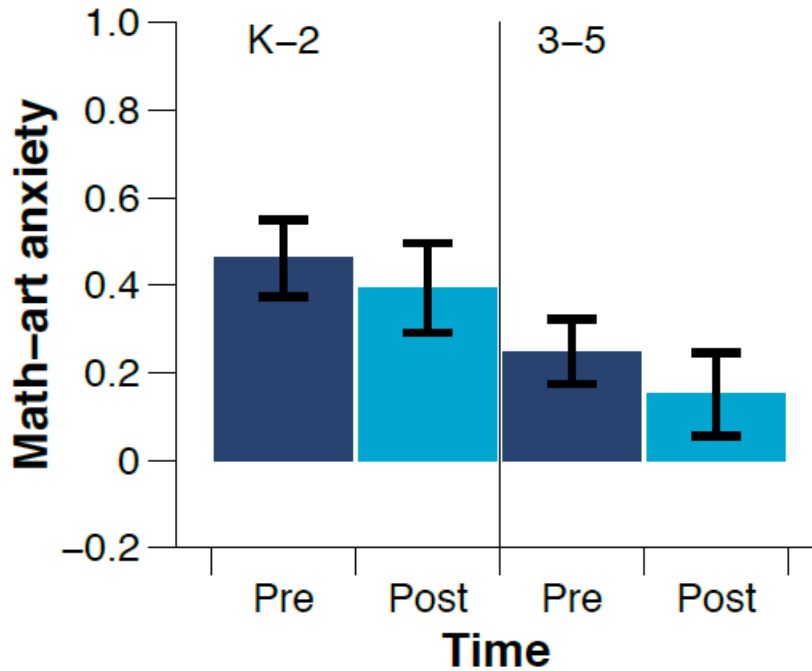
Appendix B

Research - Crazy 8s Club

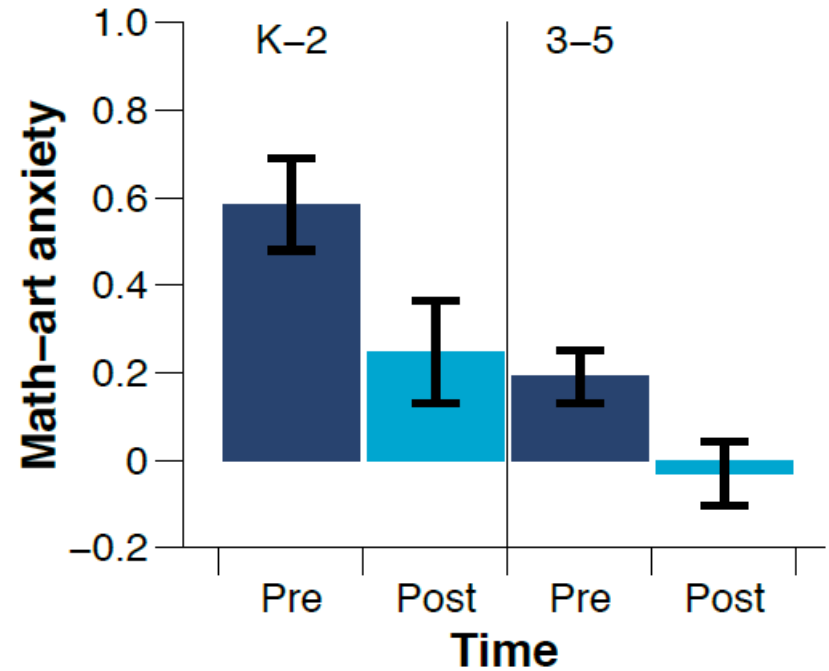
Proven concept: Benefits of getting off screens, onto hands-on content

Details: A study conducted by Johns Hopkins University showed that Crazy 8s significantly **reduces students' math anxiety after just eight weeks.**

Control Group



Intervention: Crazy 8s



Appendix C

Research - Fun Factor

Proven concept: Small-group, high-dosage interventions

Details: After 6 weeks of tutoring and using Fun Factor, the number of students who **tested at or above grade level almost doubled**, rising from 27% to 48%. Those exposed only to the tutoring curriculum over the same time period rose only from 22% at/above grade level to 29%.

