


4 Hallmarks of a **SUCCESSFUL MATH CURRICULUM**



As teachers, we're not always handed the tools for success in our classrooms — especially when it comes to math.

The curriculum that administrators choose for us can be rigid and ineffective. The textbooks we're asked to use might as well be ancient history. And the students who enter our classrooms each semester haven't always mastered concepts from the prior grade level.

At Vimme Learning, we believe that success in your classroom comes when you're given a proven model for achievement. That's why we built a

modern math curriculum from the ground up — made by teachers for teachers.

Based on firsthand experience from more than 25 years in the classroom, Vimme is constantly growing thanks to input from contemporary math teachers. Along the way, we've pinpointed four key elements that any successful math curriculum should offer to put the modern math class on a better path.





KEEPING STUDENTS FROM SLIPPING THROUGH THE CRACKS

LESSON ONE

Maybe more than any other subject, math is brutally sequential. Just take a look at this 5th grade lesson plan, and you'll see how each week's skillset builds the foundation for the next.

In a perfect world, students would learn the skills in a given week to apply them to the next concept. But how can a student be expected to succeed with two-digit divisors if they're still having trouble multiplying two-digit numbers?

With most math curriculums, that student falls behind and isn't given a chance to catch up. Two-digit multiplication might not show up on coursework or quizzes at all after initially taught. The struggling student rarely has a chance to practice those fundamental skills again without individual attention or additional coursework.

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Weekly Lesson Plan

Fifth Grade: Week #11 Order of Operations, 2 Digit Divisor

Monday	Tuesday	Wednesday	Thursday	Friday
<p>New Skills for Week #11</p> <ul style="list-style-type: none"> Introduce Week #11 Interactive Notebook Do sample problems Administer "Exit Ticket" to determine mastery of: Order of Operations 2 Digit Divisors 	<p>Infuse Rigor into Weekly Skills</p> <ul style="list-style-type: none"> Kick up sample problems to challenge top students Review skills from past weeks, where mastery is still lacking: <i>volume area</i> Remediate students lacking mastery of weekly skills Administer "exit ticket" covering: <p>Order of Operations 2 Digit Divisors Volume (WK 10) Area of Parallelograms (WK 6)</p>	<p>Cumulative Review Quiz</p> <ul style="list-style-type: none"> Peer tutoring Small Group Instruction Final prep before Week #11 Assessment 	<p>TESTING DAY</p> <ul style="list-style-type: none"> Administer Week #11 Assessment Use Real-Time Data to begin grouping students for specific remediation After assessment is completed, use Test Review-mode to go over top missed questions. 	<p>REMEDIATION DAY</p> <ul style="list-style-type: none"> Use data from Week #11's assessment to fill-in-gaps Intentional Remediation <p>INTRODUCE New Skills for Week #12</p> <ul style="list-style-type: none"> Mean Mode Median Range

Below the lesson plan, there are three sample documents: a cumulative review quiz, a test review mode, and a real-time data table.

Cumulative Review Quiz (Sample):

1. Find the area of a rectangle with a length of 12 m and a width of 8 m. (12 x 8 = 96 m²)

2. Find the area of a parallelogram with a base of 10 m and a height of 6 m. (10 x 6 = 60 m²)

3. Find the area of a triangle with a base of 10 m and a height of 6 m. (10 x 6 = 60 m²)

Test Review Mode (Sample):

1. Find the area of a rectangle with a length of 12 m and a width of 8 m. (12 x 8 = 96 m²)

2. Find the area of a parallelogram with a base of 10 m and a height of 6 m. (10 x 6 = 60 m²)

3. Find the area of a triangle with a base of 10 m and a height of 6 m. (10 x 6 = 60 m²)

Real-Time Data Table (Sample):

Student	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18
John Thompson	64%	73%	73%	91%	45%	82%	82%	36%	64%	55%	64%	64%	100%	82%	55%	64%	82%	45%



The solution to keep students from slipping through the cracks, as many of us have discovered in our own classrooms, is spiral review. Spiral review is the cumulative repetition of skills, week after week. It gives students more opportunities to practice, apply and ultimately master each of the math skills they're taught throughout the semester.

While a weekly math quiz might be focused on calculating area and volume, with spiral review it may also ask students to demonstrate basic two-digit multiplication. Spiral review is a cumulative approach to strengthen your class's foundation in math skills, and it's one of the hallmarks of a modern, successful math curriculum.

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When we were students, if you didn't learn a skill during week 3 you'd never see it again until the standardized text. With Vimme, that skill keeps showing up even in week 16, so students have a chance to repeat, apply and understand it.

Kyle Deboy, 6th grade math teacher

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**CATERING TO BOTH ENDS OF
THE ACHIEVEMENT SPECTRUM**



The start of the semester is an exciting time to meet your new students and lay the groundwork for the year ahead. But for many math teachers, it's also a critical time to assess the skill level of your class.

The reality is that not all students who share a grade level are prepared to achieve in math at the same level. Success looks different for each student. For one, it might mean going from a 96% to a 98%. For another, it might simply mean growth from week to week regardless of the letter grade — a 35% to a 42%, for example.

How do you challenge both of those students to grow at their own achievement level, when you only have a single period to teach them both? The simple fact is that math textbooks and standard curriculum aren't equipped for the job. As teachers, we spend our evenings scouring the internet for activities and worksheets to fill in the gaps.

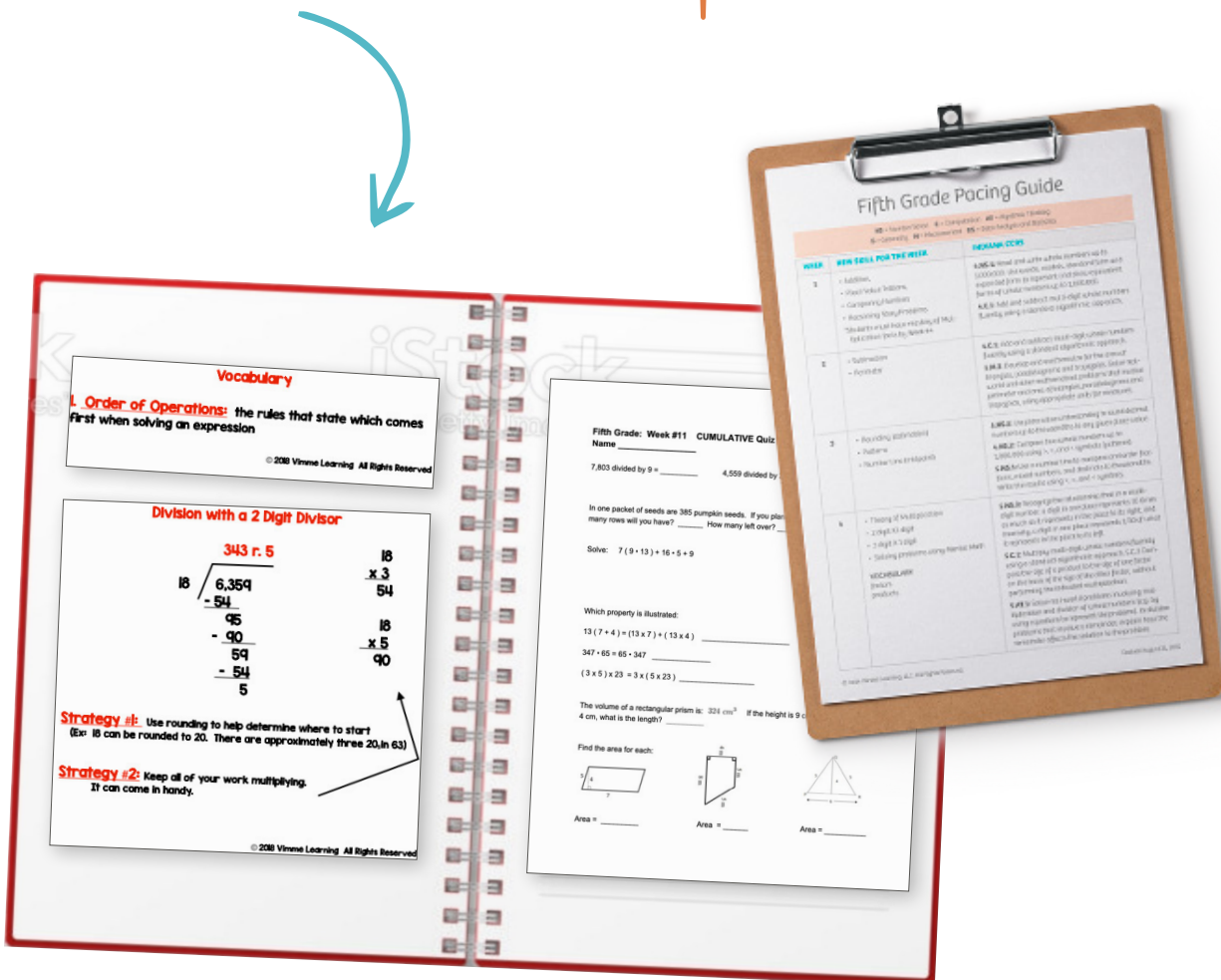
LESSON TWO

Vimme Learning's math curriculum is comprehensive enough to cater to each student, whether they're currently achieving below, at, or above their grade level. With the same quizzes, coursework and homework, you can challenge your math whizzes and while helping your struggling students hammer home fundamental math skills.

And when you need some extra help, Vimme's robust library of resources is at your fingertips. You can reclaim your free time in the evenings and still help your students succeed at their achievement level.

I used to do hours of work for a single student who needed the extra push. I don't have to spend my evenings finding activities to challenge my kids anymore, it's built right into Vimme Learning.

Joel Rolf,
5-8th grade math teacher





MAKING RIGOR THE STANDARD

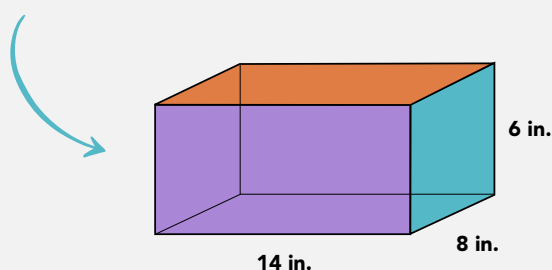
LESSON THREE

When we asked one seasoned math teacher about the biggest change in his classroom throughout his tenure, he said it's that he's "gone soft." Compared to when he started teaching more than 30 years ago, his coursework and quizzes are much less complex.

It's natural for teachers to feel that we're asking less and less of our students as the years go by. Attention spans are demonstrably shorter, and we compete with an infinite amount of distractions that weren't present when many of us began our careers.

But that doesn't mean that our students aren't capable of buckling down and working hard when asked.

In a successful math curriculum, rigor isn't a taboo word — it's the norm. We've found that students are incredibly capable of applying themselves toward complex problems when it's built into their everyday coursework.



1. What is the volume?
2. A refrigerator is delivered. The refrigerator box holds 240 cubic feet. If the refrigerator is 8 ft. high and 5 ft. wide, what is the length?
3. How many 2 inch cubes would fit within a rectangular prism with these dimensions? height: 12 inches
length: 8 inches width: 6 inches

Mental stamina doesn't come from rote memorization of equations. It comes when students are asked to think deeper. When they're asked to approach a problem from several different angles, they're given a real chance to retain and apply their knowledge.

By constantly reframing assessment questions, a successful math curriculum like Vimme Learning helps students prepare for the rigor of state assessments and the rest of their academic careers.

Textbooks don't ask our students for a lot of deep thinking. There's not much rigor, and not much real-life significance. Vimme Learning puts my students through the paces, and they've risen to the challenge.

Scott Beringer,
5-8th grade math teacher

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GIVING TEACHERS MORE DATA

LESSON FOUR

Even if your school isn't 1:1 with laptops or tablets, odds are your classroom is much more high-tech than it was when you were a student. But many math curriculums don't put the wealth of available technology to use for teachers. You might still be stuck in the stone ages using a textbook and pen-and-paper coursework, or grading papers by hand.

Vimme Learning was built from the ground up to be a modern, technology-focused math curriculum. Vimme harnesses the power of real-time data to give you unmatched insight into your math students' needs.

STANDARD	AVERAGE	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12
4.C.1	59%	52%	69%	68%	50%	63%	61%	59%	56%	34%	55%	64%	
4.NS.1	63%	57%	68%	70%	80%	40%		82%	80%		45%		
5.M.3	55%		52%	50%	57%	91%	56%	74%	38%	52%	37%	52%	
5.NS.5	70%			78%	70%	68%	67%		60%	60%	57%	86%	
4.NS.2	59%			77%	48%	70%		73%					
5.NS.1	65%			77%	70%	70%	64%	91%	44%	58%	20%		
5.C.1	55%				57%	57%	50%	64%	52%	30%	52%	66%	
5.AT.1	57%					63%	48%	77%	44%	18%	63%	61%	
5.NS.4	71%					100%	68%	59%				59%	
5.NS.3	58%					70%	36%						
5.M.2	64%						64%						
5.C.3	46%						36%	64%	55%	35%	20%		
5.C.9	54%							67%	33%	41%	48%	61%	
5.M.4	45%								53%	38%			
5.M.5	45%								51%	38%	20%	55%	
5.M.1	55%										48%	59%	
5.M.6	54%												
5.C.2	73%												

See your standards week by week, and how well your students are learning them.

Like any other modern online curriculum, Vimme grades your students' quizzes and tests automatically, so you can save time when grading. You'll see what each student got on the assessment, as well as the average grade across your class.



But the real power of Vimme is in the question view. When your students sit down to take the quiz or test, Vimme's dashboard gives you a live look into how they're doing on each question. You'll see a live, color-coded view of your class' performance before the final student completes their assessment.

Thanks to that real-time data, you can see what each student submitted as their answer, and which skills would be beneficial for them to review. You can filter test results to see which students need help with a particular concept, and group them together for remediation.

Vimme can also show you which standards were covered on a particular assessment. Because of spiral review, each test cumulatively incorporates skills and standards from the entire semester.

With Vimme's dashboard you can view your class' average on each standard that will appear on the standardized test, so your students are prepared for academic success.

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Vimme's online tests and Mathbots give me and my students instant feedback. I can see which students are struggling, and which skills I need to focus on for review day. I'm not struggling to help my students anymore.

Amanda Thrasher,
3rd grade math teacher

Vimme Learning

Made by teachers for teachers

Vimme Learning is an online math curriculum made by teachers for teachers. Vimme doesn't just prepare students for the state assessment. Through rigorous spiral review, it helps students on both ends of the achievement spectrum to apply math skills for true comprehension and mastery.

Vimme provides structure for success in your math classroom, while offering enough flexibility to make lessons your own. Real-time data helps you

pinpoint areas where your students are struggling, so you can make the most of review days. And with a robust library of resources, you'll always have the tools you need to reinforce skills without falling behind in the pacing guide.

Sign up for a free demo and see how far your students can go with Vimme. You'll get a six-week lesson plan for your grade level, from 2nd grade through pre-algebra.



Vimme Learning

Six-Week Free Trial

- ✓ **6-week pacing guide**
- ✓ **6 weekly cumulative assessments**
- ✓ **6 weeks of instructional videos**
- ✓ **6 weeks of interactive notebooks**
- ✓ **6 weeks of anchor charts**
- ✓ **Real-time data reporting**
 - By week
 - By question
 - By standard
- ✓ **Online quiz builder**
- ✓ **Pre-made quizzes**



From large, urban districts to small, rural ones, Vimme Learning has a proven track record of raising state assessment scores and preparing students for academic success. Start your free six-week demo, and put your math classroom on a new path.

SIGN UP TODAY

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If you want your students to be excited about a subject, you have to be excited to teach it. I can say definitively that Vimme makes me excited about math.

Kristi Bowen,
5th grade math teacher