

# How to Use



## In the Classroom!



A **teacher's guide** to bringing TumbleMath into the classroom!

Use TumbleMath to “hook” your students on math, and make connections across the curriculum with these fun and educational math books!

## Why TumbleMath?

A math picture book is a perfect way to help bring a math concept to life in an easy and accessible way.

You will recognize many – if not most – of the books in the collection. And now, they're all together in one easy-to-use database.

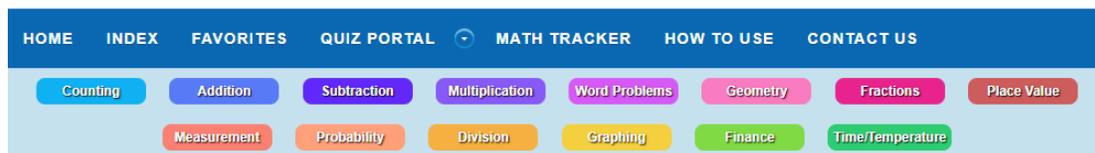
You can use our picture books as the hook for the lesson, which will help your students – especially your visual learners – see math in a new light.

## Math picture books can be categorized in three ways:

- 1. Fundamental** – Fundamental math picture books are based solely around the concept.
- 2. Embedded** – Embedded math picture books are where the math is embedded in the story and the plot stands alone.
- 3. Connected** – Connected math picture books do not have math concepts in place but teachers can make connections to math through think-alouds or class discussions.

## Choosing your Math Picture Book:

If you haven't already done so, one of the best ways to start exploring the collection is to click through the categories and familiarize yourself with the titles that are available. You'll find lesson plans for all the books, plus quizzes for follow-up testing.



If you are tackling a specific Common Core or other State/Provincial standard, your best bet is to start in the Quiz Portal section. There, you can easily identify your curriculum standard and select the standard you want to address. This section will also include all of the materials we've collected for that standard.

Start by clicking on 'Quiz Portal' in the navigation bar to view the State Standards that TumbleMath currently offers. (Are your standards missing? Let us know and we'll look into adding them!)



## Let's Get Started with Standards!

You can begin your browsing the site by clicking on '**Quiz Portal**' from the navigation bar, using the '**MathSearch**' feature, or by selecting one of our 14 math categories.

- When you select a math standard through the Quiz Portal, you'll see all applicable math content for that standard: quizzes, lesson plans, and books!
- After selecting a certain book, TumbleMath will show you the book's details such as: available Quizzes, Lesson Plans, Keywords, Math Skill, Math Standard and Grade Level.
- Finally, you can read the book's description or summary to learn more about its topics, and to determine how the book will fit into your lesson.

## Read Online:

- Click the "Read Online" button to read the book.
- It can be super helpful to pre-read a book before a lesson, and with TumbleMath the books are always at your fingertips (or mouse-clicks!)

## Lesson Plans:

- Each TumbleMath book is paired with lesson plans aligned with the appropriate math standards and grade level.
- Read the lesson plan and worksheet to see how it can work for you!
- TumbleMath lesson plans are written by teachers just like you!

## Multiple Reads:

- TumbleMath subscriptions include unlimited usage which means that students can re-read the book as many times as they need to!
- Reading a book multiple times helps reinforce concepts and supports comprehension and retention.

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### ***No Child Left Behind!***

*TumbleMath is a highly accessible database, featuring a variety of books at different reading levels, and math skill levels!*

*The books even come in a variety of formats: the popular TumbleBook format with animation, narration, and highlighted text, or non-animated books with audio narration.*

*We also have some student favorites: Graphic Novels!*

***This means that you can tailor your lesson to feature different books – on similar subjects – for every child in your class!***

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## **Before Reading:**

### **You have chosen your TumbleMath book, now what?**

- Once you have chosen your TumbleMath book, begin your lesson by introducing book-related and standard-related vocabulary.
- Next, create an anchor chart with vocabulary and your students' pre-thinking about the chosen concept.

## **During Reading:**

### **Always set a purpose for your reading!**

- Challenge students to look for your chosen vocabulary words while you're reading the book (either independently or as a class).
- Encourage them to look for examples of the math concept.

## **After Reading:**

### **Prepare content and comprehension questions.**

- Give your students time to discuss what they learned from the story.
- Encourage them to refer to specific elements of the story or the text to support their thinking.
- Add to your anchor chart.
- Allow the students to model the math concepts.
- Lead the class in a guided practice lesson with the concept, making connections back to the book.

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*Keep the HOOK going!*

*If the book is about counting with ladybugs, use ladybugs cut-outs or black and red chips to count. If the book is about fruit or leaves, bring some into class!*

*Or, connect math class to art class, and make your own!*

*Connections, connections, connections!*

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## Independent Practice:

- Students will need the opportunity to work with the concept independently. This is a great time to use one of the worksheets from your guided TumbleMath lesson plans.
- Differentiate your lessons by providing manipulatives, smaller numbers, or similar books with lower reading levels.
- Challenge students by encouraging them to work with larger numbers, or have them create simple how-to videos. Explaining a concept to another student is a great way to encourage a concept to “stick”.

## Quiz Portal:

- The Quiz Portal offers a growing selection of state standards from which to choose!
- It allows students to find quizzes and books related to specific concepts.
- The quizzes are broken down by math concept and the results are tracked to monitor a student’s progress.
- Quizzes are skills-based, and while the associated books will help understanding of the concept, the book is not required reading to get a good quiz score.

## Math Tracker:

- TumbleMath’s Math Tracker feature provides you with an in-depth view of your students’ reading activity, math comprehension by listing which books they’ve read, how many they’ve read, and which quizzes completed.
- Please email us ([info@tumblebook.com](mailto:info@tumblebook.com)) to sign up.

## Extensions:

- Have your students make their own “TumbleMath” book! It could be a class activity, or an independent one.
- Encourage your students to illustrate the concept, and to write a story to go along with it!
- Add the class’s book to your math center so students can review the concept any time they wish!
- Rereading the book will refresh students’ understanding of the concept.
- You can even send the book home for parents to read! Challenge students to “teach” their parents or siblings about the concept.

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*How do you use **TumbleMath** in the classroom?*

*Let us know, and your ideas could be featured in the next User Guide!*

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