



Symphony Math Installation and Login

For desktop/laptop computer access go to the web page mysymphonymath.com (an internet connection is required)

Type the Account # **4164**

Type the students username and password (as per email confirmation)

No installation is necessary.

4164
Username
Password
SIGN IN

Once logged in students can click on the 'life saver' icon (top right of screen) if they need help. Using the help icon also alerts the program that the student may need more alternative presentations of the skill.

 An iOS app for Apple iPads is available via the Apple Store. iOS 5.1 or higher is required. Search for Symphonymath (no gap).

Hardware requirements for Symphony Math v7

Symphony Math version 7 works in most major browsers and operating systems, but requires the Adobe Flash Player plugin version 11.2 or higher. A full set of requirements for this plugin is available on the Symphony Math site at symphonylearning.com/support/technical-requirements/.

Scope and Sequence

All students start in placement activities that begin at Stage 1 of Symphony Maths. They seamlessly move from 'placement' activities to 'skills practice' at an appropriate level for them based on their answers, and work their way through the 20 Stages. In 'placement' each stage is completed in about 3 or 4 minutes. The program then auto branches to provide practice and help where it's needed, so students will have a personalised experience, and those who demonstrate they already know a skill will move up more quickly than those needing more practice.

1. The Number Sequence	11. Foundations for Multiplication
2. More/Less/Same	12. Regrouping with 2- and 3-digits
3. Add and Subtract to 5	13. Multiplication and Division
4. Ten as a unit	14. Introduction to Fractions
5. Comparing Numbers	15. Multiply and Divide to 100
6. Add and Subtract to 20	16. Multiply and Divide with 1/10/100
7. Tens	17. Add and Subtract Unit Fractions
8. Add and Subtract with 10s	18. Non-unit Fractions
9. Hundreds	19. Decimals
10. Add and Subtract with 100s	20. Improper Fractions

How Symphony Math Works

Symphony math is a program that helps students connect these BIG IDEAS in mathematics.

Symphony Math covers School Year 1 to 6 'Number' skills. Mastery of 'Number' is essential to development of higher level math skills later on. NZ National Standards indicate 'Number' should be the focus for 60-80% of math curriculum in years 1 to 4, 50-70% in years 5 to 6, and 40-60% in years 7 to 8.

What is a BIG IDEA?

A BIG IDEA is a concept that must be understood in order for students to succeed in higher level maths. For example, many of us spent a lot of time with our Addition and Subtraction facts. The BIG IDEA in adding and subtracting is 'Parts-to-Whole', or the understanding that parts can be combined to make a larger whole - and that a whole can be broken down into smaller parts. BIG IDEAS are building blocks for mathematicians. As they learn new concepts, students build on previous foundational concepts (like Parts-to-Whole) to help them understand and master new material.

How does Symphony Math teach the Big Ideas?

When students use Symphony Math, they aren't just practicing their facts: they are mastering BIG IDEAS. Mastery is accomplished in several ways:

Conceptual Understanding

Students represent each BIG IDEA in Symphony Math through the use of different visual tools, like Dot Cards, Number Lines, and Counting Bars. And when they master these tools, students connect them to traditional number sentences, and then use them to solve real-world problems.

Fluency

Successful math students have both a solid conceptual foundation in math and also the ability to quickly and accurately solve common math facts. Symphony Math works on fluency during every session of use to promote fast recall of basic addition, subtraction, multiplication, and division facts.

Adaptive Branching

Symphony Math constantly surveys your student's performance to provide the best material for them. All students have an opportunity to start at the beginning of our curriculum. As they master BIG IDEAS, they will move on to more complex material. But when they struggle, Symphony Math provides students with extensive tasks that challenge the student to truly master the material.

Math Mastery is Hard Work

The Symphony Math program aims for users to not only know the answer, but respond quickly to show they have learned it well enough to help them resolve more difficult math questions later on.

Throughout Symphony Math, students are constantly challenged to demonstrate their mastery by constructing models, building number sentences from story problems, and building fluency in their basic facts. It's hard work, and students must use the program consistently to expect results. But the payoff is worth the effort, and students who work hard in Symphony Math will gain a solid foundation that will help them succeed in higher levels of mathematics.

Mastery rounds will help students practice working at speed – but they still progress through levels regardless of the speed in mastery rounds.

