

CMP3 © 2018 Program Overview

Introduction

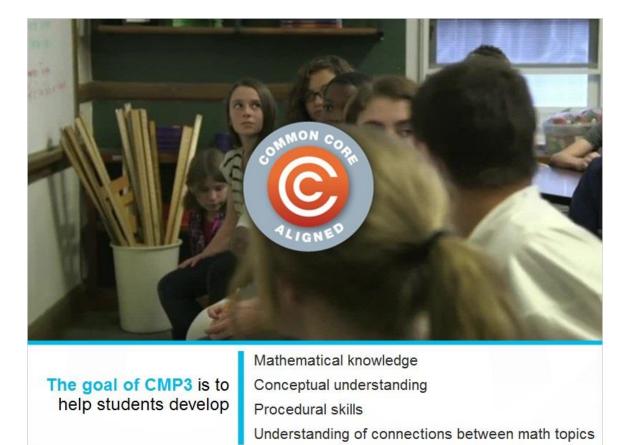


In this tutorial, we will explore the next generation of Connected Mathematics-CMP3.

We will start with the program structure and components. Then we will look at the three-part lesson structure. Finally, we will go over key program resources for assessment and differentiation.



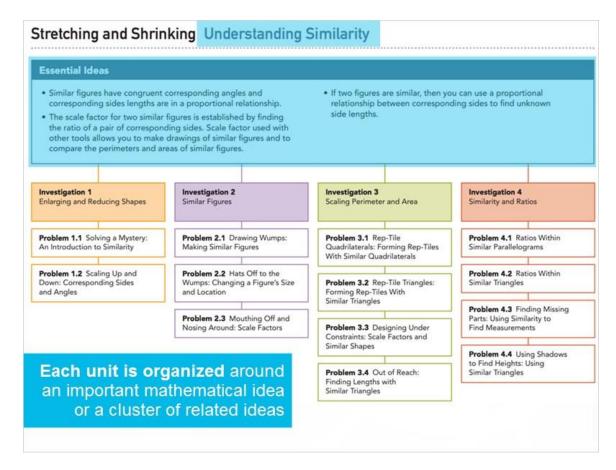
Program Philosophy



CMP3 supports the belief that students should be able to reason and communicate proficiently in mathematics. The overarching goal of CMP3 is to help students develop mathematical knowledge, conceptual understanding, and procedural skills, along with an understanding of the rich connections between math topics-across grades and across content areas. The program also embeds the Common Core State Standards for Mathematics.



Program Structure



CMP3 comprises seven units in Grade 6, eight units in Grade 7, six units in Grade 8, and eight units in Algebra I.

Each unit is organized around an important mathematical idea or a cluster of related ideas. In this unit, the focus is on the concept of similarity.

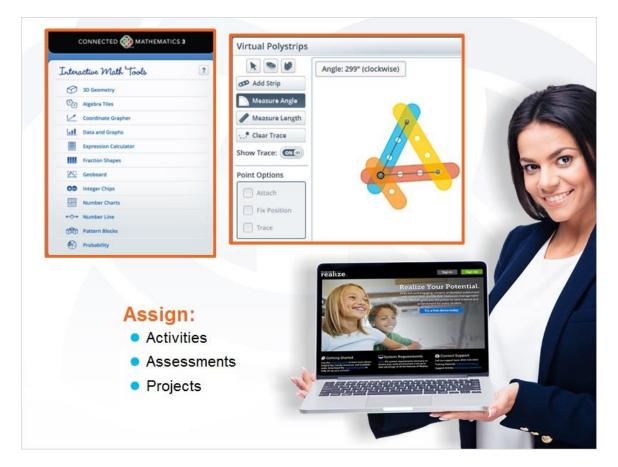
Each unit is broken down into three to five Investigations. The Investigation builds toward the mathematical goals of the unit. An Investigation comprises about one week of class time.

Each Investigation is then made up of three to five problems. Most problems are designed for students to complete within a single class.

Each unit begins with a Unit Overview. In it, you'll find these sections: Unit Description, Summary of Investigations, Unit Graphic Organizer, Planning Charts, and Parent Letters in English and Spanish. You will also find classroom videos to support the unit instruction.



Program Components



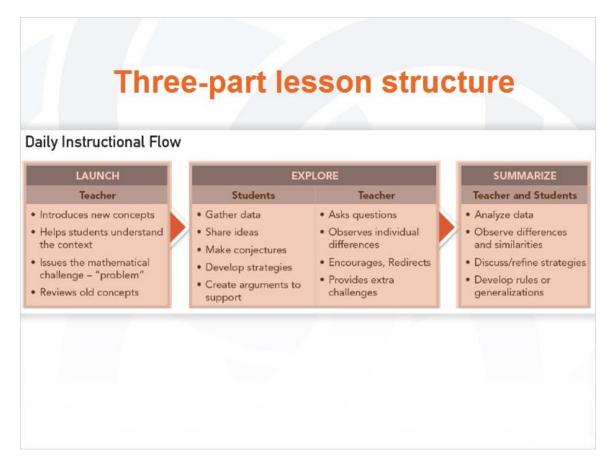
CMP3 is a blended program of print and digital resources. All of your print components are listed here.

- Teacher's Guide
- Student Edition
- Teacher Resources book
- Implementation Guide
- ExamView Test Generator CD-ROM
- Grade-specific Manipulative Kits

Your digital resources are housed on Savvas Realize™. This is the main platform where you can assign activities, assessments, and projects to students. You can access the Teacher and Student Realize Reader eTexts from Savvas Realize. In the Teacher eText, you will find full lessons, background information, and planning resources. The Student eText includes helpful annotation tools that students can use to complete assignments.



Lesson Structure



Now let's take a closer look at the typical daily instructional flow. CMP3 uses a three-part lesson structure-Launch, Explore, and Summarize.



Launch

4.2 Genetic Traits Finding Percents

Have you ever heard of *genes*? (Not the "jeans" you wear, even though they sound the same.) What color are your eyes? Is your hair curly? Are your earlobes attached? You are born with a unique set of genes that help to determine these traits.

Scientists who study human traits such as eye and hair color are *geneticists*. Geneticists are interested in how common certain human traits are.

Look at the earlobe of a classmate. Is it attached or detached? The type of earlobe you have is a trait determined partly by your genes. Here is a description of four genetic traits:

- · A widow's peak is a V-shaped hairline.
- · A dimple is a small indentation, usually near the mouth.
- · Straight hair does not have natural waves or curls.
- · An earlobe is attached if its lowest point is attached directly to the head.
 - Introduce problem situation
 - Help students understand context
 - Avoid problem-solving instruction

Launch the problem by introducing the problem situation and helping students understand the context. Resist the urge to teach any of the mathematics students will encounter through solving the problem.



Explore



During the Explore phase of the lesson, students make sense of the problem and work collaboratively to find a solution.

As students work, ask questions, observe individual differences, encourage, and provide extra challenges using the guidance from your Teacher's Guide. Your questions should follow students' lines of thinking rather than directing them to a different way of thinking. During this time, select a few strategies that you can discuss and connect to their thinking as a part of the last phase-Summarize.

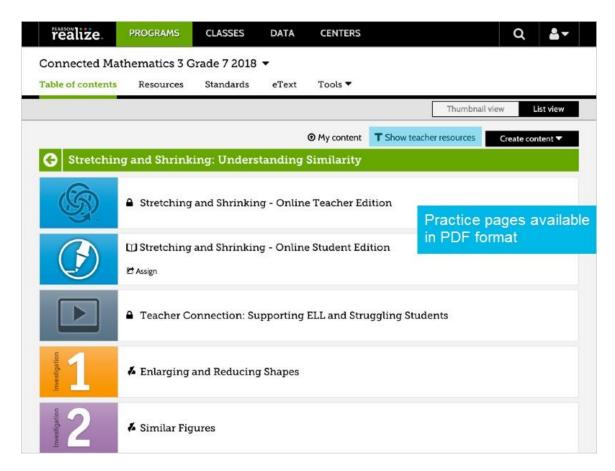
Summarize



During the Summarize phase of the lesson, you and your students discuss the strategies you have selected, analyze differences and similarities, refine the strategies, and develop rules or generalizations. Students should be contributing most of the mathematical thinking during these discussions.



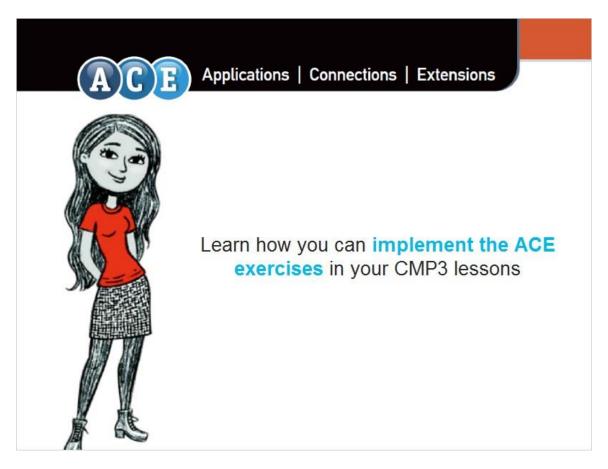
Additional Practice and Homework



Following the lesson, you may choose to assign additional practice to support the lesson content. These practice pages are available in PDF format in the Teacher Resources section on Savvas Realize.



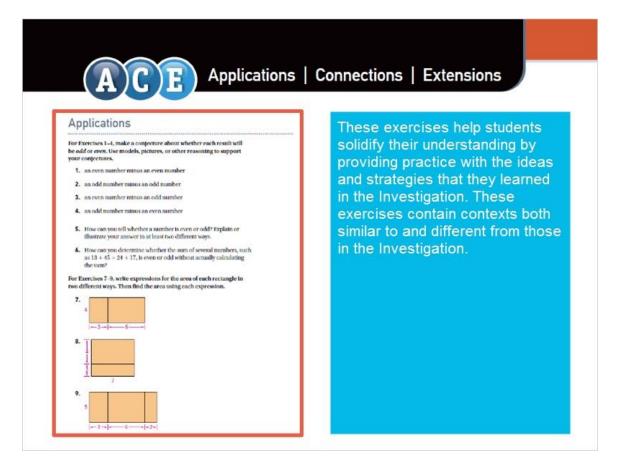
ACE Exercises



At the end of each Investigation, direct your students to the Applications, Connections, and Extensions - or ACE - section to begin their homework. Let's take a closer look at the ACE exercises to learn how you can implement them in your CMP3 lessons.

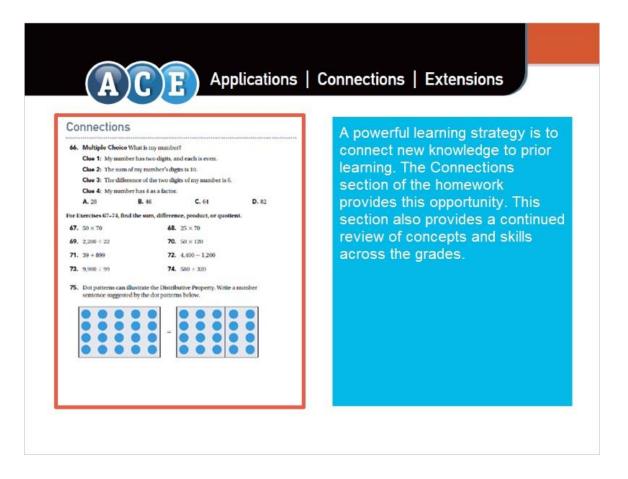


Applications



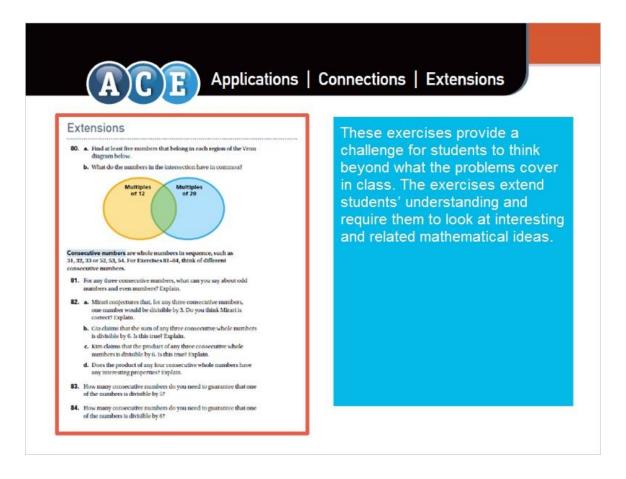


Connections



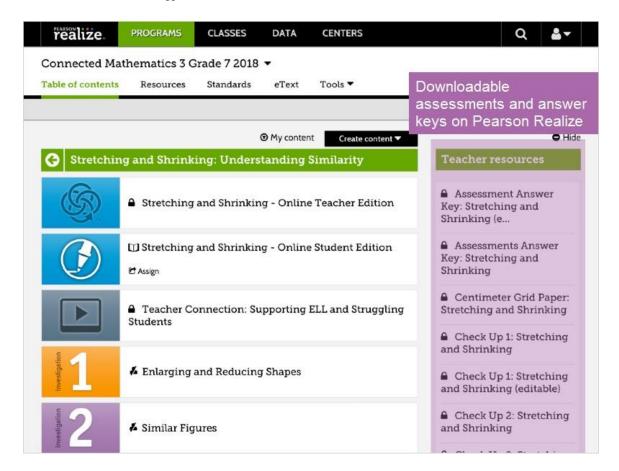


Extensions





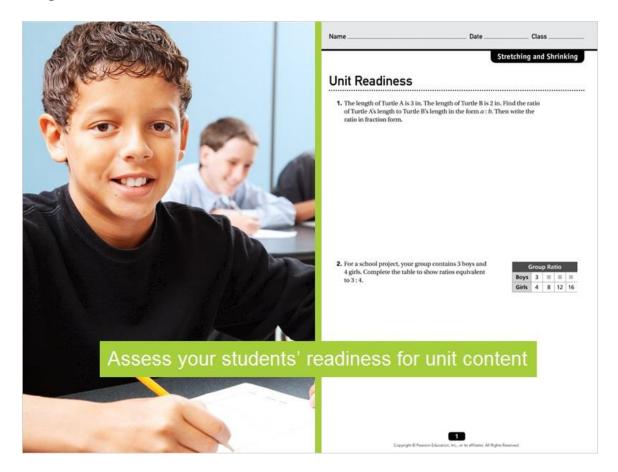
Assessment and Differentiation



CMP3 offers a comprehensive system of assessment to help you monitor and track your students' understanding. You can download the assessments and answer keys from the Teacher Resources section on Savvas Realize. Let's look at some of the key assessment and differentiation opportunities in the program.



Diagnostic Assessments



Administer the Unit Readiness assessment before beginning each unit to assess your students' readiness for the unit's content.



Summative Assessments

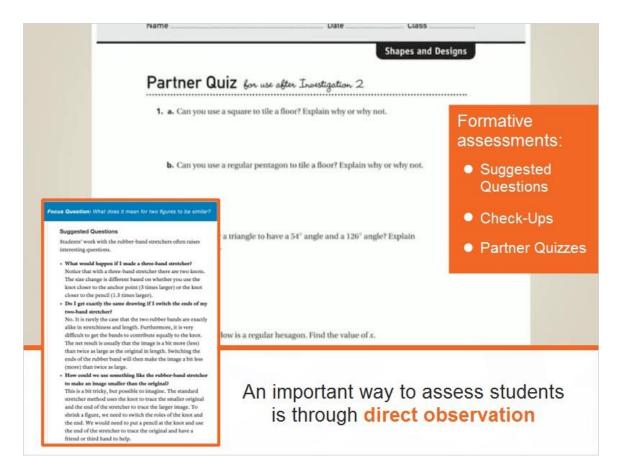


Looking Back is a unit-level summative assessment located in the Student Edition. Some questions will require students to explain their reasoning. The Unit Tests also assess student mastery of each unit's content. Both of these assessments are available as PDF downloads on Savvas Realize. Alternatively, students can complete and submit these assessments digitally, using the Drawpad annotation tools to show their work.

Monitor students' progress using the auto-graded Benchmark Assessments, available in alternating units on Savvas Realize. You can find them in the Practice and Assessments folder, located in the Table of Contents.



Formative Assessments



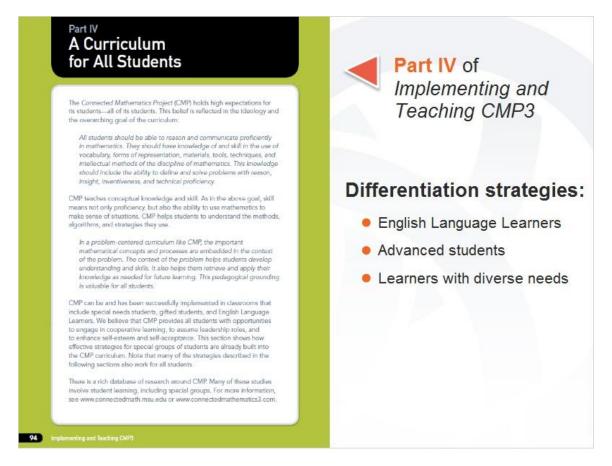
An important way to assess students in CMP3 is through direct observation as they engage with the mathematics.

Use the Suggested Questions throughout the Launch, Explore, and Summarize phases of each problem to uncover students' ways of thinking and prompt further discussion.

Check-Ups and Partner Quizzes are pencil-and-paper formative assessments for students. Quiz questions are richer and more challenging, whereas Check-Ups focus more on skills practice.



Differentiation

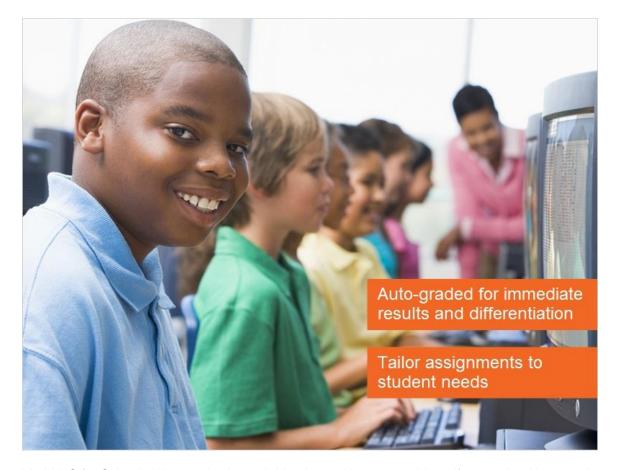


CMP3 embeds differentiation through its focus on student thinking as the foundation for instruction.

Refer to Part IV of *Implementing and Teaching CMP3* for specific differentiation strategies for English Language Learners, advanced students, and other learners with diverse needs.



MathXL for School



MathXL® for School skills practice is available along with every problem. If your school has purchased a MathXL for School subscription, you have access to additional assessment and differentiation options. You can find these materials in the Practice and Assessments folder.

Because these materials are auto-graded, you receive immediate results and gain important insight into your students' progress and performance throughout the year. MathXL for School helps you differentiate by tailoring assignments to students' instructional needs.



Closing



In this tutorial, we learned about the program structure and components, including the three-part lesson structure. We also reviewed assessment and differentiation resources that help inform your instruction.

For additional CMP3 tutorials, visit MyPearsonTraining.com.