Maple™ Training Materials

There are a variety of Maple training materials available to accommodate different needs and learning styles.

www.maplesoft.com/training

Maple Quick Start

The Maple™ Quick Start Tutorial Guide provides a comprehensive overview of fundamental Maple concepts and techniques. You will learn how to use context menus, task assistants, and palettes to perform analyses and create graphics with only a minimal knowledge of commands.

Audience: Intended for new users, or those who have used Maple only casually and/or years ago. Recommended for anyone who will be using Maple regularly, as it provides a solid foundation for future work. Most beneficial if done as "hands-on", but results are provided (in a document and video), so Maple is not required.

Style: Systematic coverage of key concepts. Hands-on. Video and written document.

Length: Approximately 25 minutes to work through the examples. 15 minutes to watch the video.

To download the **Maple Quick Start Tutorial Guide** and watch the **Maple Quick Start Tutorial Movie**, visit: **www.maplesoft.com/support/training/quickstart.aspx**

Training Webinar

This recording of an academic training webinar describes techniques to compose, visualize, and solve a wide variety of mathematical problems without commands, and provides an introduction to some of the technical documentation features in Maple, including the use of interactive components such as buttons and sliders.

Audience: New and beginner users.

Style: Recorded webinar.

Length: Approximately 50 minutes

To watch the **training webinar**, visit: **www.maplesoft.com/trainingwebinar**

Maple Student Video Tutorials

Maple Student Video Tutorials explain how to use Maple to solve a particular math problem. Clickable Math techniques are used to solve more than 25 common math problems arising in math courses, taken from differential and integral calculus, linear algebra, and multivariate calculus. Topics include definite and indefinite integrals, area between curves, volume by revolution, least squares, change of basis, solving linear systems, and more.

Audience: New users who want to start solving problems immediately. Videos can also be used by people who have Maple experience, but are new to using Maple to solve problems in that topic.

Style: Training videos. Each video is designed to solve a particular kind of problem. Steps are explained in detail, and multiple approaches are shown.

Length: Approximately 7-10 minutes each.

To watch the **Maple Student Video Tutorials**, visit: **www.maplesoft.com/support/training/studentvideo**

General Training Videos

These training videos provide a quick way to learn some of the basic concepts for using Maple.

Audience: Mostly new users, but some topics (creating documents and embedded components) could be of interested to beginner/intermediate users. For those who like to learn from short videos, and who want a foundation of basic Maple concepts before diving in to solve specific problems.

Style: Short training videos.

Length: Approximately 3-4 minutes each.

- Getting Started With Maple
  Demonstrates the basic steps for entering math problems and computing answers in Maple.

- Entering Math in Maple
  Demonstrates techniques for composing complex mathematical expressions.

- Problem Solving and Plotting in Maple
  Demonstrates the basic steps for composing, solving, and plotting various types of mathematical problems.

- Creating Documents in Maple
  Demonstrates how to create professional-looking documents in Maple.

- Using Embedded Components in Maple
  Demonstrates the basic steps for using interactive embedded components in Maple.

For these and even more **training videos**, visit: **www.maplesoft.com/support/training/trainingvideos_maple.aspx**

Hands-On Tutorials - Fundamentals

In addition to the Maple Quick Start Tutorial Guide, Maple provides numerous step-by-step tutorials which you can work through yourself, inside Maple. These tutorials are part of the **Maple Portal**, which is designed as a starting place for any Maple user.

Audience: Beginners can step through the basics of mathematical exploration and plotting, while more advanced users can use the tutorials to learn about document creation, data structures, and interactive application development. Ideal for those who prefer hands-on experience to watching videos, and/or who want the instructions in writing so it's easier to follow along.

Style: Detailed written instructions so you can try each example yourself inside Maple. Expected results are shown at each step.

Length: Approximately 5-10 minutes to work through each tutorial.

Access the Maple Portal through the Maple Portal desktop icon. Alternatively, in Maple, select **Help>Manuals, Resources, and More>Maple Portal**, or enter **?MaplePortal** in the worksheet.

Hands-On: "How do I...?"

The Maple Portal for Students acts as a starting point for hundreds of common tasks from mathematics courses, and anticipates the question "How do I ..." in Maple. Instructions and pointers are given for a huge variety of tasks, such as factoring polynomials, creating animations, differentiating expressions, obtaining the real part of a complex number, fitting a regression model to data, finding the great common denominator of integers, and much more.

Audience: Beginners, or anyone trying to do one of the tasks for the first time. A basic familiarity with Maple is assumed, so it is recommended that new users learn the fundamental Maple concepts first.

Style: The Student Portal is primarily there to help you perform particular tasks, rather than provide Maple training in general. Provides instructions and/or links to the tutor, task template or other tools that will solve the problem directly.

Length: Depends on the task, but usually less than a minute.

The Maple Student Portal is linked to the Maple Portal. Access the Maple Portal through the Maple Portal desktop icon. Alternatively, in Maple, select **Help>Manuals, Resources, and More>Maple Portal**, or enter **?MaplePortal** in the worksheet. Then click on the **Students** button at the bottom right.

Overview Videos

These videos are designed to provide overviews of various product capabilities. They are not training videos, and so do not necessarily show or explain the steps, but they are useful as a high-level overview of Maple.

Audience: Anyone who wants to get a quick overview of what Maple is capable of and how it works, but doesn't need the details yet.

Style: Overview videos.

Length: Approximately 2-3 minutes each

Clickable Math
During this brief demonstration, you will see firsthand how Maple's easy-to-use equation editor, context menus, palettes, and other clickable interface features allow you to focus on the concepts, not the tool.

Visualization Capabilities
Visualization is a powerful, indispensable tool in mathematics education and research. In this brief demonstration you'll see how Maple can quickly produce engaging graphics of mathematical concepts.

Technical Documents
Maple's smart document environment provides you with all the tools you need to easily create professional-looking assignments, research reports, and other technical documents and presentations. In this brief demonstration, you will see how a typical problem-solving session can be transformed into a polished document.

Extensive Collection of Built-in Mathematical Algorithms
Maple's world-leading computation engine offers the breadth and depth to handle every type of mathematics, from pre-calculus to graduate work and beyond. In this brief demonstration, you will see a sample of Maple's problem-solving abilities, with examples taken from a variety of subject areas.

For these and even more **overview videos**, visit:
www.maplesoft.com/products/Maple/demo