



Getting Started with Apple iOS Devices

A guide for using iPad, iPod touch, and iTunes
for K–12 teaching and learning

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Foreword

Educators all over the world are examining the tools and learning environments required to develop skills students need to succeed in school, work, and life. Many are already achieving great results using mobile devices such as iPad and iPod touch in their classrooms.

The flexibility of these iOS devices allows teachers to address the unique learning needs of a range of learners, support second language learners, engage struggling students across subject areas, and even advance their own professional development. And because iPad and iPod touch are portable, teachers and students can learn where and when they want.

iPad and iPod touch can deliver large quantities of academic content to students in an efficient and convenient manner. The seamless integration of Apple's iOS devices and iTunes makes it easy for teachers to provide textual, auditory, and visual resources to all types of learners, including those who need extra assistance.

iPad and iPod touch are also great productivity tools to help you organize and manage routine administrative tasks. Need to research something or find directions to a meeting? With iPad and iPod touch, you can quickly access the Internet. Have a presentation to give? Use Keynote to develop and present your content right from iPad.

This Getting Started guide is meant to help you begin creating an environment for anywhere, anytime learning. You'll learn the basics of iPad, iPod touch, and iTunes. Whether for one user or an entire class, you'll also discover how to effectively set up, maintain, and manage iOS devices in the classroom. And you'll explore several curriculum ideas for using iPad and iPod touch in your learning environment. Because Apple products have similar, easy interfaces—and its mobile devices run on the same operating system—it won't take long to begin using these innovative tools with your students.

As many educators have experienced, using iPad or iPod touch in your classroom puts the power to effectively teach and learn in your and your students' hands, both literally and figuratively.

Kathy Shirley
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Overview



About iOS Devices for Education

As many educators have discovered, iPad and iPod touch are easy-to-use iOS devices with a variety of classroom uses. (They're called *iOS devices* because they use the Apple iOS operating system.) Students use iOS devices to interact with educational apps, watch educational videos, listen to audio recordings or podcasts, view primary source images, read textbooks and other course materials, do research online, and create content.

With the apps on iPad and iPod touch, you and your students can send and receive email, take notes, make to-do lists, keep calendars and contact files, and much more. And the tens of thousands of education apps available for download from the App Store expand learning even more. Students can be highly engaged in viewing the stars, learning a language, reviewing math facts, practicing vocabulary and grammar skills, learning about historical events, and much, much more.

Students can also take photos, use FaceTime for video calls, and make HD movies on the go with the built-in camera, and then use the iMovie app to edit them. With Keynote, Pages, and Numbers (included with every iOS device and available from the App Store), they can create presentations, many types of documents, and spreadsheets. And they can browse, edit, and share their photos with the Camera and iPhoto apps.

iPad and iPod touch make it easy for students to copy and paste from app to app, such as text from a web page to a note, and to share files with their teachers and other students. You can even connect the devices to a TV or projection device with an added accessory (see "[Accessories for iPad and iPod touch](#)" later in this guide) to share slide presentations and other content with the whole class.

It's also easy to load files, apps, photos, songs, and video content onto iPad and iPod touch. You can download media and apps directly to your device with a Wi-Fi connection. Or you can connect directly to a Mac or PC using the dock connector on the bottom of the device and the included USB cable. Then you can use iTunes to organize your content, sync (copy files onto the device), and recharge quickly.

This guide focuses on the capabilities of iPad, iPad mini, and iPod touch. Note that the features discussed pertain to iOS 7 as well as iPad 2 and later, any iPad mini, and iPod touch 5th generation and later. If you're using an earlier model of iPad or iPod touch or an earlier version of iOS, some features discussed in this guide won't apply.

If you're determining whether to use iPad or iPod touch with your students, evaluate your students' needs and your plans for using the devices. For example, the smaller size of iPad mini or iPod touch may be an advantage for younger students with smaller hands, learning on the go, or language acquisition. Or you might choose iPad when students will benefit from the larger screen size or need to create more content.

For detailed information about iPad specifications, visit www.apple.com/ipad. For detailed information about iPod touch specifications, including hard drive size, battery duration, and included accessories, visit www.apple.com/ipod.



Why iPad and iPod touch for Education?

Innovative educators are using iOS devices as powerful educational tools to meet students' academic needs. Here are just some of the reasons:

- iPad and iPod touch, like Apple's other iOS devices and computers, are familiar, easy to use, and exciting for students. And the Multi-Touch screen means students can read a book, explore an app, page through websites, and much more with just the touch of a finger.
- Portability, instant on, and long battery life give students anytime access to learning from any location.
- iPad and iPod touch can be personalized to support students' individual learning styles and needs with tools like customized playlists, built-in accessibility features, support for more than 30 languages, and specific education apps. And students can access content as many times as it takes them to master it.
- iOS devices engage students with their education—students actively participate in and focus on the learning process, no matter what their learning style. They can also use iOS devices to create their own content, such as movies and music compositions.
- iTunes U provides teachers and students with access to the world's largest online collection of free education content, including complete courses, videos, podcasts, audiobooks, PDFs, and more. They can access it all on iPad and iPod touch with the iTunes U app, available free from the App Store. What's more, the web-based tool iTunes U Course Manager offers an easy way to create and publish course materials to distribute to students and others.
- With a Wi-Fi connection, students have anytime access to the Internet as well as to printers on the wireless network. And Bluetooth offers connection with a wealth of other tools, such as digital microscopes, science probes, and keyboards.
- Education apps from the App Store offer limitless avenues for exploring new subjects, reinforcing learning, expressing creativity, helping with organization, and much more.
- iPad and iPod touch give all types of learners versatile and amazing ways to read—from reading Multi-Touch textbooks and other books with iBooks, which gives you access to a dictionary and other tools with a tap of the finger, to a wealth of audiobooks and other interactive book apps.
- Students and educators have a valuable collection of productivity tools in just one device—for taking notes, keeping track of dates, browsing the Internet, sending and receiving email, and more.
- With built-in features and apps from the App Store, iPad and iPod touch offer a broad range of accessibility features to address students with special needs such as visual and auditory impairments.

These are just a few of the reasons educators are finding iPad and iPod touch so valuable for teaching and learning with today's students. The rest of this guide offers information and suggestions for using these amazing devices in your classroom.



iTunes at a Glance

iTunes is an app for organizing and playing digital audio and video content. It has an easy-to-use interface for managing the content on iPad and iPod touch. You can set up iTunes on the Mac so that when an iPad or iPod touch is connected to a computer, the iTunes library automatically syncs to that device.

iTunes is also used to connect to the iTunes Store for downloading free academic content from iTunes U, apps from the App Store, books from the iBooks Store, podcasts, music from around the world, full-length movies and TV shows, and more. Apple TV lets

you view the contents of an iTunes library, such as movies and TV shows, on a classroom television. iTunes is compatible with both Mac and PC and comes preinstalled on every Mac computer. It's available as a free download at www.apple.com/itunes/download.

Adding content to your iTunes library is as easy as downloading it from the iTunes Store, adding PDF and other files from your computer, or importing it from a CD. The iTunes library can hold a collection of digital audio and video files, such as music from a CD, video files downloaded from iTunes U, apps downloaded from the App Store, and books downloaded from the iBooks Store. As an iTunes collection grows, you can maintain multiple libraries for classroom use.

In iTunes, you can organize songs and other items into playlists. Adding a file to a playlist doesn't duplicate it—it's simply an alias, or pointer, for the actual files in your iTunes library. The sidebar displays all of your playlists.

You can create playlists to organize iTunes content for a specific student project or for a particular class. For example, if you're studying the American Civil War, you could create one playlist with songs from that time period and video clips from iTunes U.

You can also create Smart Playlists that automatically update according to criteria you set—for example, podcasts you've added in the last month. And you can use playlists to set up digital portfolios for students to collect and assess their work throughout the school year.

To access the iTunes Store, click iTunes Store at the top right of the iTunes window when you're connected to the Internet. As you download free or purchased items, iTunes automatically adds them to your library. To learn about the iOS device settings in iTunes, see ["Using iTunes on a Computer to Add Content"](#) later in this guide. For links to more detailed information about iTunes, see ["Resources"](#) later in this guide.

Managing iOS Devices and iTunes for Student Use

This section provides suggestions for managing iPad, iPod touch, and iTunes in your classroom. Because iPad and iPod touch are designed to be paired with one computer or user account, the way you use these devices will determine how you decide to set up user accounts and manage settings and content.

In some schools, students are assigned their own devices, such as with a one-to-one learning initiative. In other schools, students use a shared set of devices, such as from an Apple iPad Learning Lab.

Getting Students Up to Speed

Most students won't need instruction on how to use iPad or iPod touch, but you might want to review specific items such as how to access different types of content, how to use the features of a Multi-Touch book, and how to start and stop an audiobook. You also might want to show the class how to use iTunes and the other apps they'll be using.

Volume Purchase of Apps

The Volume Purchase Program (VPP) makes it simple for institutions of any size to buy apps and books in volume for both iOS and Mac and distribute them to students, faculty, administrators, and employees.

Developers can offer education institutions special pricing on apps through VPP. If a developer has enabled education pricing, institutions receive a 50% discount when purchasing in quantities of 20 or more.

iBooks Store purchases are available through the Volume Purchase Program. However, the user's personal iTunes account must be used to redeem the book so that the user becomes the owner of the book.

For more information, visit www.apple.com/education/volume-purchase-program.

Setting Up the School's iOS Devices

There are three ways to configure and manage settings on iPad and iPod touch and to add content to those devices: manually, using configuration profiles with the Apple Configurator app, or using a Mobile Device Management (MDM) solution.

Restrictions, configuration information, and apps and other content can be set directly on each iOS device. This is the simplest configuration method but requires manually entering settings on each device and syncing content. This may be best when there aren't a lot of devices to configure or when you're doing your own setup of classroom devices.

For classroom-sized management, Apple offers Apple Configurator, a free Mac app that can be used to quickly configure multiple iOS devices with the settings, apps, and data you specify for your students or teachers.



To manage large numbers of devices, Apple and many third-party software companies offer mobile device management (MDM) solutions.

MDM solutions, such as Profile Manager, which is part of Apple's OS X Server, can manage distribution of VPP apps and books, device configurations and restrictions, accounts and more—for hundreds and thousands of devices. Profile Manager simplifies the creation of user accounts for mail, calendars, contacts, and chat; enforcement of restrictions through mobile device management; PIN and password policies; and more. Schools can also use an MDM solution to control which accounts and apps can open certain documents and restrict changes to accounts. In addition to Apple's Profile Manager, there are third-party MDM solutions.

To learn more about deployment tools, including Apple Configurator, visit <http://apple.com/education/it>. To learn more about OS X Server and Profile Manager, visit www.apple.com/osx/server.

Distributing iOS Content to Student Users

There are different ways you can distribute content to the iOS devices used by students. If your school uses an MDM (mobile device management) solution, as described in the previous section, you can distribute content as managed distribution. Another way to distribute content to students is as redeemable content codes.

Managed distribution allows schools to get apps and books into the hands of students quickly and easily. Education institutions can purchase apps or books in volume, and then assign them to students via an MDM solution. When a student no longer needs the app, or when he or she leaves the institution, the app can be reassigned to a different student. It's also possible to use MDM to install apps over the air automatically and without student interaction.

Redeemable codes allow institutions to purchase apps and books and download a spreadsheet containing redeemable codes. The school can then provide these codes to its students. Ownership of the app or book is given to the Apple ID that redeems the code.

Using AirDrop to Share Content

With AirDrop for iOS, students can quickly and easily share all types of content, such as photos and videos, from any app with a Share button. To share content with AirDrop, students and teachers must be using iOS 7 or later on an iPad fourth generation, iPad mini, or iPod touch fifth generation, and need to be on the same Wi-Fi network. An iCloud account is also required for both people.

To use AirDrop, tap Share, then select the person you want to share with. AirDrop does the rest using Wi-Fi and Bluetooth.

Keeping Track of Student iOS Devices

Mobility is a powerful aspect of iPad and iPod touch. Like textbooks, notebook computers, and other learning tools that may go to and from school with students, you probably will want to asset-tag the devices using the same type of tags or barcodes you do for other items.

If students don't have access to a personal device and you want to check out devices from your classroom, a sign-in/sign-out sheet helps keep track of them. Along with asset tags, consider numbering each iPad or iPod touch so you know who is using each device. When you first set up an iOS device, you're prompted to name it. You can use these same names when you set up your student checkout system. If the library manages the devices, you can use the same checkout system as for library materials.

Another management idea is to purchase inexpensive small plastic containers and put together an iPad or iPod touch checkout kit containing a device, headphones, and a USB cable. Take a photograph of what should be included in the kit and tape that photo to the plastic container.

Sharing iOS Devices

Along with checking out iPad or iPod touch devices to take to and from school, students can share them in other ways. If you don't have a class set of devices, you can assign one iPad or iPod touch to a group of students, using a project-based learning approach. You can also use an audio splitter, like the Griffin SmartShare, to allow two students to share one device.

You can effectively use just one iPad or iPod touch to record audio with a group of students—simply pass the device from student to student, having them record a reading passage for assessment or narration for a story. It's a good idea to have each student say his or her name at the beginning of each recording for easy identification later. (For more information, see [“Using iPod touch and iPad for Voice Recording”](#) and [“Accessories for iPad and iPod touch”](#) later in this guide.)

Tools to Aid Assessment

Guided Access, part of the Accessibility features of iOS 7, can be used to help students stay focused on the task (or app) at hand. It can be used with all students, including those with autism or other attention and sensory challenges. This is particularly helpful to use when students participate in assessment activities. With Guided Access, a teacher limits an iOS device to stay on one app by disabling the Home button and even can restrict touch input on certain areas of the screen.

MDM tools can be set up so teachers can wirelessly turn on single app mode—an extension of Guided Access—on student iOS devices. By using single app mode, teachers can temporarily and remotely lock or unlock iOS devices into a specific app, such as an assessment app, ensuring that all students are on the same activity at the same time. This is a powerful tool to focus attention and secure devices for assessment.



Mobile Learning Solutions

Apple offers convenient ways to manage multiple devices in the classroom. The Apple iPad Learning Lab is a mobile system that comes with a set of iPad devices and a fully assembled, sturdy, and secure Bretford PowerSync Cart. The cart can store, charge, and sync connected iPad devices simultaneously and has extra storage space for a MacBook computer. The cart rolls around the school, so multiple classes can use it, and it can be locked to secure the devices when they're not in use.

You can purchase a preconfigured Apple iPad Learning Lab or build your own lab to meet your school's specific needs.

For more portability, you can use the Bretford PowerSync Roller 10 for iPad to charge, sync and transport up to ten devices. And where space is limited, the Bretford PowerSync Station 20 for iPad and iPad mini can be stacked up to three units high or individually mounted on the wall. If you already have iPad devices, the carts, rollers, and station can be purchased separately.

Viewing Content with Apple TV

With Apple TV, you can easily use an HDTV or another display to share content that's on an iOS device or a Mac, such as photos from a field trip, a movie the class has produced, iTunes U videos, and more. To use Apple TV, connect an iPad, an iPod touch, or a Mac to an HDTV or a display with a video output cable. Or you can play your content wirelessly with AirPlay—when your device and Apple TV are connected to the same Wi-Fi network, an AirPlay icon appears. Tap the icon to mirror anything being shown on the device.

Apple TV can be enrolled in MDM, allowing configuration of settings like Wi-Fi and default language. Also, your school's MDM solution can be set up to prompt students to mirror their screen on a specific Apple TV, making it even easier to display their work.

To learn more, visit www.apple.com/appletv.



Using Apps on iPad and iPod touch

The built-in apps on iPad and iPod touch offer a set of valuable resources that support teaching and learning in the classroom. In addition to using the built-in apps, you can further enhance teaching and learning by downloading apps from the App Store. You can choose from an amazing collection of apps, many of which are free and designed specifically for education. The iLife and iWork apps are also included with every iOS device. See [“Creating Your Own Content”](#) later in this guide to learn more about these apps.

Using Built-in Apps

With the apps built into iPad and iPod touch, students can listen to downloaded audio files, view video content, browse the Internet, take notes, use a calculator, check email, create and sync calendars, and more. This section provides an overview of many of these apps.



Videos

With the Videos app, you can view video downloaded from iTunes, including free education movies in iTunes U, feature films, TV shows, video podcasts, and instructional media. You can also view movies that students create with the iMovie app.

To play a movie, tap Videos, then tap the video you want to watch. On iPod touch, videos automatically play in widescreen to take advantage of the full iPod touch display. On iPad, you can view movies in either portrait or landscape mode. To display the video controls, tap the screen once; tap it again to hide them.



Camera

Use the Camera app to take photos and capture video with the built-in camera. iPad with Retina display, iPad mini, and the iPod touch fifth generation 32GB and 64GB models feature a 5-megapixel iSight camera with advanced optics, a backside illumination sensor, auto white balance, and face detection to take great still images. This camera also records 1080p HD video.

To open Camera, tap Camera on the Home screen or swipe up from the bottom of the screen to open Control Center and then tap the Camera icon. Drag to select from the available modes, such as square-format photo or video. You can use the Camera app to edit your photos, including cropping them or eliminating red-eye. You can then use the iPhoto app to make additional edits. With the iMovie app, you can edit your video. (See [“Creating Content on an iOS Device”](#) later in this guide.)

If it's available, you can use AirDrop (see [“Using AirDrop to Share Content”](#)) to instantly share your photos with other devices. You can also share them via email, iCloud, and in other ways. You can choose photos to set as wallpaper (background images for the Home screens of iPad and iPod touch). Students can use them in projects they create on their device, such as a Keynote presentation or Pages document. And you can sync photos and videos to a Mac for students to use in projects they create on the computer.



Photos

With Photos, you can view, edit, and organize photos and images transferred from your computer, saved on the device, or taken with the device's camera. Organize photos into albums and view them in portrait or landscape orientation or as a slideshow. Tap Photos to see the available images. Tap the Share icon when a photo is open to see options for sharing. Double-tap an image to zoom in.



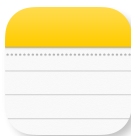
Safari

With Safari and a Wi-Fi connection, students have a great tool to do research both in and out of the classroom. Students can quickly and efficiently search for information using the search field. With tabs, students can open multiple web pages and switch between them in a single window, helping them keep track of where they are. They can add pages they find to a reading list and come back and review them later without being connected to the Internet. They can also use Safari to download and view PDF files.

The Reader feature lets students eliminate distracting ads and just view the text and image of an article, helping them focus on the content that really matters.

If you want to provide students with a group of websites to use for research, you can add bookmarks on a computer and sync them to iPad or iPod touch. Or you can add bookmarks directly on the iOS device. You can even add a frequently used website to the device's Home screen for easy access.

Websites can be viewed in either portrait or landscape orientation—just rotate the device to change the orientation. Double-tap or pinch to zoom in and out on a web page.



Notes

The Notes app lets you easily add, read, and revise notes. If the device is set up for email, you can also email notes that you've created. The Notes app has many uses, such as for creating meeting summaries of students' collaborative projects, taking notes during a presentation, capturing learnings from a field trip, and more. And because you can copy and paste text with the device, you can copy text from a web page or an email and add it to a note, or copy text in a note and add it to a Pages document.

To create a note on iPad, tap Notes, type your note, and then tap the Keyboard icon on the keyboard when you're done. On iPod touch, tap New to create a new note, and then tap Done when you're finished. With both devices, tap the Share icon to see the options to share your notes with others.

Notes can be synced with the Mail app on a Mac. When you use iCloud, the notes you create on iPad or iPod touch are available on any of your other iOS devices and Mac computers.



Mail

To send and receive email with the iOS Mail app, you need to add email account details to the device's Settings, or add them in iTunes when the device is connected to your computer. You can send and receive photos and movies and view attached PDFs and other files. The Mail app helps students with their writing by suggesting words, correcting spelling, and more.



Calendar

To keep track of important dates or school schedules, you and your students can use the Calendar app. You can enter and edit calendar events directly on the device. Students can use Calendar as an organizational tool as well, for example, by setting a time to work on a project with an alert to remind them to get started. You can also create calendars using Calendar (included with every new Mac) or Outlook, such as a class calendar with due dates for projects, holidays, field trips, and other school activities, and then sync the calendar to iPad or iPod touch to share with the class.



FaceTime

Use FaceTime and a Wi-Fi connection to participate in video calls with others who are using iPad 2 or later, iPod touch (4th generation), or iPhone 4 or later.

To get started, tap the FaceTime app icon and tap the name of the person to call from your Contacts list. An invitation appears on that person's device asking if he or she wants to join you. When the person accepts, the video call begins.



Contacts

You and your students can add your contact information using iCloud or sync contact information to iPad or iPod touch from Calendar on a Mac, Google Address Book, Windows Microsoft Outlook, or Microsoft Exchange. You can also add contact information to the devices directly.

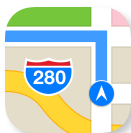
To view all the people on your contact list, tap the Contacts icon. To add a contact, tap the Add button (+). Enter the contact information for that person and then tap Done.



Settings

With the Settings app, you can set your wallpaper image, screen brightness, text size, and settings for network, accessibility, email, web, books, music, video, photos, and much more. You can also set auto-lock and a security passcode and restrict access to explicit iTunes content and certain apps.

To view or adjust device settings, tap Settings, and then tap a Settings category.



Maps

Maps shows you detailed street maps, satellite photos, and street views of locations in many of the world's countries and regions—a wealth of information that students can use in their projects. For example, students can view the actual terrain of the Oregon Trail or the Egyptian pyramids. Maps also includes the Flyover feature that lets you see certain metropolitan areas from the air with photo-realistic, interactive 3D views. You can also use Maps to get detailed traffic information as well as driving, public transit, and walking directions to specific locations.



Music

To access your audio collection, tap Music, then tap to browse by playlist, artist, song, or other category, or tap More to see other options, such as audiobooks. Tap a title to play it. Tap Radio to listen to iTunes Radio, which includes 250 preset stations as well as the ability to create your own station.



Reminders

With Reminders, you and your students can note to-do items in a list or by date. You can set up a date to be reminded about each item and also assign it a priority level. Check off each item as it's completed. This is a great way for students to keep track of homework and other class assignments.



Newsstand

Newsstand puts all your newspaper, magazine, and journal subscriptions from the App Store in one place, ready for you to read. To get started, tap the Newsstand icon and then tap Store to go to the section of the App Store that features newspapers, magazines, and journals. Tap to add the items you want.



Photo Booth (iPad)

With Photo Booth, you and your students can take photos of each other and then add fun effects to them. Photo Booth takes photos with the front- or rear-facing camera, so you just need to hold up the iPad and tap the shutter button to take a picture. Tap the Camera button to switch from the front to the rear-facing camera. You can choose from different effects for each photo. The photos are saved in the Camera Roll in the Photos app on iPad. You can share them with AirDrop if it's available (see ["Using AirDrop to Share Content"](#)), email them to others, add them to projects created with iWork apps for iPad or iMovie for iPad, and more.



Calculator (iPod touch)

Tap the onscreen buttons in Calculator to enter figures and perform calculations. It's easy for students to keep track of their calculations—when you tap the add, subtract, multiply, or divide button, a white ring appears around that button to indicate which operation is selected. When you rotate the iPod touch, the calculator changes to a fully functional scientific calculator. (Calculator is included with iPod touch; for iPad, there are many downloadable calculator apps, many of which are free.)



Clock

You and your students can use the Clock app to see what time it is in other parts of the world, set repeating or one-time alarms, and use a stopwatch and timer. In the Clock app, tap World Clock, Alarm, Stopwatch, or Timer to use that feature.



Voice Memos (iPod touch)

Use Voice Memos to record all sorts of audio files on iPod touch. You can sync the files to your iTunes library or share them via email. To record, tap Voice Memos from the Home screen, then tap the red Record button to start recording. Tap this button again to pause or resume the recording. To save the recording, tap Done. Enter a name for the recording and tap OK.

To hear a recording, put on earphones, tap the recording, and then tap the Play button. See ["Using iPod touch and iPad for Voice Recording"](#) later in this guide to learn more.

For iPad, you can download a voice recording app, such as Voice Record, from the App Store.



Adding Apps from the App Store

Thousands of education apps are [available on the App Store](#), offering unlimited potential to transform teaching and learning. There are apps for every subject and every stage of learning. Some apps can be used on all iOS devices, and some are specifically for iPad. To view an app for iPhone or iPod touch in a larger size on iPad, just tap 2x at the bottom right of the iPad screen.

A few examples of apps available for download:



- Explain Everything from MorrisCooke (iPad)—Record voiceover whiteboard tutorials and share them in a variety of ways.
- Britannica Kids: Ancient Egypt from Encyclopedia Britannica (iPad and iPod touch)—Learn about Egypt with videos, images, and interactive maps and games. (Volcanoes, Rainforest, and Dinosaurs are some of the other apps in this series.) For ages 8–12.



- Frog Dissection from Emantras Inc. (iPad)—Dissect a frog with this scientifically accurate and easy-to-use app.
- Starfall ABCs from Starfall Education, LLC (iPad and iPod touch)—See, hear, and interact with letters and sounds in words, sentences, and games. For younger students, including English language learners.
- Puppet Pals from Polished Play LLC (iPad and iPod touch)—Choose from fun characters and settings to tell stories that can include both animation and audio.
- Motion Math Zoom from Motion Math (iPad and iPod touch)—Practice learning place values using a zoomable, stretchable number line and engaging objects such as dinosaurs and amoebas; start with basic numbers and go all the way up to negative numbers and decimals.



- eClicker Presenter and eClicker Audience from Big Nerd Ranch, Inc. (iPad and iPod touch)—Use this polling software to pose questions to the class with eClicker Presenter; students answer with eClicker Audience on their iOS devices.
- WolframAlpha from Wolfram Alpha LLC (iPad and iPod touch)—Get instant answers to all sorts of questions on any topic from this comprehensive reference app.



- Algebra Touch from Regular Berry Software, LLC (iPad and iPod touch)—Review algebra with this app that takes advantage of the Multi-Touch capabilities of iOS; the app includes lessons and practice problems presented by the app or created by the user.



- The Elements: A Visual Exploration (iPad) and The Elements for iPhone 4 (for iPod touch) from Element Collection—Explore the periodic table with this visual interactive app that has 360-degree views of elements and related objects and a wealth of engaging information. The iPad version is viewable in 3D with 3D glasses.



- GeoBee Challenge by National Geographic (iPad and iPod touch)—Have fun testing your knowledge of world geography; includes beautiful maps from *National Geographic*.



- iHomework from Paul Pilone (iPad and iPod touch)—Students can track assignments, store class and teacher information, calculate course grades, and set reminders for themselves with this organization aid.
- Proloquo2Go from AssistiveWare (iPad and iPod touch)—Get an augmentative and alternative communication (AAC) system for students who have difficulty speaking.

To view hand-picked collections of education apps organized by topic areas, visit <https://itunes.apple.com/WebObjects/MZStore.woa/wa/viewRoom?fcid=552094704&mt=8>.

You can locate and download apps from the App Store in iTunes on your computer or download them directly to your device when connected to the Internet via a wireless network. You can search for apps by category or name. If you download apps from iTunes on a computer and you're using iCloud, the apps automatically appear on the iPad or iPod touch. If you're not using iCloud, connect the iOS device to the computer to sync the apps from iTunes. (See "[Adding Content to an iOS Device](#)" later in this guide.)

You need an iTunes Store account to download apps from the App Store, including free items. You can set up this account by clicking Account in the iTunes window. You don't need to enter credit card information to open an account. (For more information, go to support.apple.com/kb/HT2534.) Once an app has been synced or installed directly, tap its icon to open it.

Educational institutions can purchase multiple copies of apps or books at the same time by using the App Store Volume Purchase Program. For more information about this program, go to <http://www.apple.com/education/it/vpp>. Also, see “Volume Purchase of Apps” earlier in this guide.

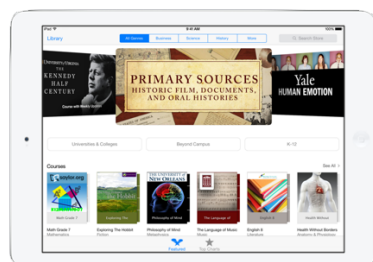
You can easily organize apps into folders on iPad and iPod touch. For example, you could have a folder of math apps and another folder of language arts apps. To create a folder, touch and hold an app until it wiggles and then drag it onto another app. Repeat this step to put other apps in the same folder. The device automatically names the folder based on the category of apps in it, but you can rename it by tapping the name of the folder. Press the Home button when you're done.

To access apps in a folder, just tap the folder and then tap one of the apps in it. To remove an app from a folder, touch and hold the folder until it wiggles, tap the folder, then drag the app out of the folder. You can also create app folders in iTunes when your device is connected to your computer.

Finding and Using Additional Education Content

iOS devices, the iTunes U app, and iTunes provide great ways for you and your students to access valuable education resources. This includes content from existing sources, such as apps, iBooks Textbooks and other books from the iBooks Store, iTunes U content and courses, podcasts, audiobooks, music, and videos, as well as content you create yourselves, such as movies, photos, slide presentations, and books created with iBooks Author.

This section describes different types of education content and apps available for use with iOS devices. The next section describes how you and your students can use the tools that come with a Mac and iPad and iPod touch to produce your own content to use with these devices.



Finding Content on iTunes U

One great resource from the iTunes Store is iTunes U, the world's largest online catalog of free education content. iTunes U has more than 750,000 media files—including complete courses, lectures, lab demonstrations, language lessons, movies, panel discussions, and more. iTunes U content comes from hundreds of colleges, universities, and elementary and high schools around the world; state departments of education; and other education content providers. It includes content for both K–12 and higher education audiences. For example, you can view and listen to speeches, interviews, technology tutorials, science movies, news reports, art lessons, and professional development resources of interest to a broad range of audiences.

The Beyond Campus section of iTunes U includes professionally created content from cultural institutions such as PBS, NPR, and American Public Media, as well as from museums such as the Smithsonian, The New York Public Library, the Brooklyn Museum, and many more.

Examples of iTunes U content for use by K–12 teachers and students include:

- Khan Academy—an ever-growing library of videos on biology, algebra, calculus, chemistry, and many more topics.
- KQED (a PBS affiliate)—a variety of videos and other materials for use in the classroom; topics include Digital Storytelling and The Physics of Baseball.
- Study Partner from the Tennessee Department of Education—math skills audio presentations for students in second through eighth grade.

In addition, iTunes U offers several collections of materials, such as the [Primary Sources collection](#) that includes historical film, documents, and oral histories from the Library of Congress, U.S. National Archives, the New York Public Library, and more.

Entire courses that can be used with K-12 students are also available, such as Chemistry from Foxcroft Academy and Precalculus from TASA (Texas Association of School Administrators).

See “[Enhancing Productivity for Educators](#)” later in this guide for more iTunes U resources for professional development.

Students can easily access all these resources from one place with the iTunes U app. They can browse and download content from the entire iTunes U collection or access a wide variety of courses.



Using and Producing Courses with iTunes U Course Manager

Educators can create their own courses and publish them on iTunes U using iTunes U Course Manager, a free web-based tool accessible from a web browser. Students then have access to all course materials through the iTunes U app. Courses can feature audio, video, books, apps, websites, and other content. Students can review these materials at any time, from just one location. And they can keep track of the class assignments and check them off when they're complete. To learn more, visit www.apple.com/education/ipad/itunes-u.

Locating Content

You can search for and use iTunes U content with the iTunes U app on iPad or iPod touch or with iTunes on a computer. The iTunes U app is free from the App Store.

To locate and download resources in iTunes U on iPad or iPod touch:

1. If you don't already have the iTunes U app, download it from the App Store.
2. From the Home screen, tap iTunes U. (If the Library is displayed, tap Catalog at the top of the screen.)
3. From the screen that appears, you can browse featured content, see the most popular downloads in specific categories, or browse additional content by category or provider. You can also use the Search field to enter a specific item you're looking for. Tap an iTunes U resource once to learn more about it.
4. To have an item play instantly, tap the item. To download content, tap the item, tap the Subscribe or Download button, and then tap to download.

You might want to use iTunes on a Mac to find content that students will later use on iPad or iPod touch. To locate and download resources in iTunes U on a computer:

1. Open iTunes, and then click the iTunes Store button at the top of the window.
2. Click iTunes U at the top of the iTunes Store window to go to the main iTunes U page. (If you don't see iTunes U, enlarge the window by dragging the resize control in the bottom-right corner of the window.) To see iTunes U content in a specific category, choose an option from the pop-up menu below "iTunes U" at the right of the screen. You can also press and hold iTunes U in the navigation bar to view categories of content.
3. To search for iTunes U content, enter text in the search field. The iTunes Store divides the results into categories, such as Songs and Audiobooks. To see only iTunes U search results, click iTunes U under All at the right of the screen. Items from the search are divided into four categories: Courses, Materials, Episodes, and Collections.
4. Click an item in the iTunes U Materials or iTunes U Episodes list to play it. Click the title of a course or collection to view more information about it and to see a list of available audio and video tracks. Double-click an item in the list to play it.
5. To download items you want, click Free. If the content is ongoing, you can click Subscribe to automatically download future tracks. Often, transcripts of the audio are also available.

Once downloaded, you can use iCloud to update the iOS devices or connect an iPad or iPod touch to your computer to sync the new files to the device.

See "Resources" later in this guide for more information about iTunes U.



Reading Books on iPad and iPod touch

iPad and iPod touch provide an engaging way for students to read books, whether they're books from the iBooks Store—such as classic literature or iBooks Textbooks—books created on the Mac with iBooks Author, or interactive books from the App Store.

Use the iBooks app, a free download from the App Store, to read books on iPad, iPod touch, or Mac. After you've downloaded the app, open the iBooks app and a bookshelf appears. Tap or click Store to download a book from the iBooks Store. The iBooks Store includes over two million books, many of which are in the public domain and free. The following are just a few of the free books available: *The Odyssey*, Thomas Paine's *Common Sense*, *Frankenstein*, and *The Federalist Papers*. Students can flip through pages with a swipe or tap, search for words or phrases, or bookmark and add notes to their favorite passages.

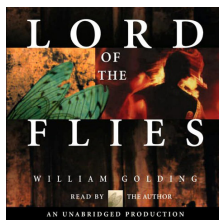
A special section of the iBooks Store includes compelling Multi-Touch iBooks Textbooks created by publishers and education experts, such as E.O. Wilson's *Life on Earth*, *The Americans* from Houghton Mifflin Harcourt, and *Algebra 1* from McGraw-Hill. These books include many features to provide an in-depth learning experience, including interactive diagrams, 3D images, photo galleries, and videos. Chapter reviews and study cards give students an opportunity to test their knowledge.

Students can also use the iBooks app to read books created on the Mac with iBooks Author—books you've created for your class, books by others that have been published on the iBooks Store, or books that students create themselves. (See “[Producing Multi-Touch Books with iBooks Author](#)” later in this guide.)

Students just tap to open a book on their iBooks bookshelf on their iOS device. iBooks makes it easy for students to customize their reading experience. They can access dictionary definitions, adjust the font size, zoom in on a page, search for words, highlight text, and add notes. They can also use the Speak feature to hear the text read back to them.

Students can also read and explore books with interactive book apps from the App Store, such as Milly, Molly and the Bike Ride; Miss Spider's Tea Party; Shakespeare in Bits: Romeo and Juliet; Bobo Explores Light; and Green Eggs and Ham.

Visit the [Education category](#) on the iBooks Store to view a wide range of books specifically for education. Here you'll find collections, such as Books for Teachers, Reference, Poetry, and more.



Locating and Listening to Audiobooks

Many students benefit from listening to audiobooks on iPad and iPod touch. A large selection of audiobooks is available for purchase from the iBooks Store. In addition, iTunes U includes hundreds of public domain audiobooks recorded and distributed by the University of South Florida. If you already have audiobooks on CD in your classroom or school library, you can import those books into iTunes and then sync them to iPad or iPod touch.

To locate audiobooks, open the iBooks app. On the Mac, click iBooks Store. On an iOS device, tap Store. You can type “audiobooks” in the search field to browse through a list of available audiobooks. You can also locate a specific book by entering a title or author in the search field in the iBooks Store. The results will show both audiobooks and ebooks.

To view the large collection of audiobooks in the Lit2Go collection offered by the University of South Florida, go to itunes.apple.com/WebObjects/DZR.woa/wa/viewTagged?tag=Lit2Go&id=384490576.

To listen to an audiobook on iPad or iPod touch, tap Music, tap Audiobooks, and then tap to play the book you want.

You can set audiobooks to play faster or slower. To set an audiobook's play speed when you're playing the book, tap 0.5x Speed, 1x Speed, 2x Speed.

When you stop listening to an audiobook and return to the book later, the device starts the book where you last stopped listening.

Locating Movies, Music, Speeches, and Other Media

Along with podcasts and audiobooks, you can also use other types of content with iPad, iPod touch, and iTunes. You can browse the iTunes Store to locate a variety of other media to enhance your curriculum, such as documentary movies, television shows, famous speeches, and children's music. With iTunes Radio on your iOS device or Mac, you can also listen to streamed radio stations, based on genre, artist, or other musical tastes.

Creating Your Own Content

In addition to content available in iTunes U, the App Store, and the iBooks Store, you and your students can create your own content. You can produce content for iPad and iPod touch with apps on the iOS devices or on a Mac.

Creating Content on an iOS Device

There are so many possibilities for creating content on iPad and iPod touch—movies with the iMovie app; musical compositions with the GarageBand app; presentations, spreadsheets, and documents with the Keynote, Numbers, and Pages apps; and recorded audio files. This section discusses just some of these options. Note that the iMovie, GarageBand, iPhoto, Keynote, Numbers, and Pages apps for iOS are all included with every new iOS device and Mac.



Making Movies with iPad and iPod touch

Students can film and edit movies on the go with the built-in HD video camera on iPad and iPod touch. For example, they could interview family members or subject experts in the community, or take footage on a class field trip. After they shoot video, students can use the built-in editing tools to choose which footage to keep.

Students can make beautiful movies anywhere with iMovie, the moviemaking app that puts everything they need to tell their stories right at their fingertips. They can add a theme, music, photos, titles, narration, and transitions to their movies as well as combine and edit clips. They can also create a movie trailer. And there are so many ways to share their completed projects without ever leaving the iMovie app: with AirDrop (see [“Using AirDrop to Share Content”](#)), iMovie Theatre, to YouTube, Vimeo, Facebook, or CNN iReport; with email or Messages; by transferring them to a computer and compatible iOS devices; or by showing them to the class on a TV or a projector. (For more information, see [“Accessories for iPad and iPod touch”](#) later in this guide.)

If students produce their movie projects on the Mac, they can take video and photos on iPad or iPod touch and then import the clips and photos to use with iMovie on the Mac.



Making Music with GarageBand

With the GarageBand app, students can use Multi-Touch gestures to experience the excitement of creating music. They can choose from a wide range of Touch Instruments, such as a grand piano, electric organ, or acoustic guitar, plug in their own instruments, and use the built-in Guitar amp and effects. Even students with no musical experience can tap melodies on a piano, strum chords on a guitar, and more using Smart Instruments. Up to four students can even play and record together in jam sessions using their iOS devices with a Wi-Fi or Bluetooth connection. Their recorded tracks appear on the bandleader’s device, ready for mixing and sharing.

Students can arrange and mix songs using a complete eight-track recording studio and more than 250 loops. When a composition is done, it can be exported to an iTunes library or sent to others via email. GarageBand on iPad and iPod touch is also compatible with GarageBand on the Mac, so students can work on the same musical piece on both the computer and an iOS device.



Taking and Editing Photos

You and your students can use the Camera and Photos apps on iPad or iPod touch to take, edit, organize, and share photos. The iPhoto app offers additional editing, sharing, and organization tools for your photos on an iOS device. It's included with every new iOS device and is available for download from the App Store. For example, students can edit photos they took from a field trip to share in a slideshow or web journal, or they can create a photo book to illustrate vocabulary words.

The iPhoto app includes a scrollable thumbnail grid that makes it simple to quickly locate photos, compare them side by side, and then select the ones you want to use. You can then edit the pictures, such as by making color corrections, or add professional effects like Black & White or Vintage. Then you can make finishing touches with brushes.

There are many ways to share photo collections. You can showcase your photos in a photo journal complete with captions, maps, dates, and the weather—and share the journals on iPad or iPod touch or use AirDrop if available (see [“Using AirDrop to Share Content”](#)) or iCloud to share them with others. Photos can also be viewed in class by using AirPlay and Apple TV or transferred to a computer to use in projects produced on the Mac.



Creating and Sharing Presentations, Documents, and Spreadsheets

It's easy to produce a wide array of presentations, spreadsheets, and documents using the iWork apps: Keynote, Numbers, and Pages. These apps have been designed to take advantage of iOS Multi-Touch features and are included with every new iOS device or can be downloaded from the App Store.



You and your students can create stunning presentations with the Keynote app. A great feature of iOS devices is the ease with which you can share and view presentations that you and your students produce. Students could present their findings from a lab experiment, produce flash cards for review, or demonstrate what they've learned about a period in history. You can use presentations to introduce a unit of study, share classroom events with students' families, or add to a Multi-Touch book created with iBooks Author.



In Keynote, students can choose from a collection of Apple-designed themes and then create slides with text, charts, tables, photos, their own artwork, and movies. They can add animation effects and transitions to enhance their presentations.

Numbers provides a flexible canvas to create spreadsheets that also include tables, charts, text, images, and even videos.

And with Pages, you can create all sorts of documents, such as reports, essays, and newsletters, right on your iOS device. You can start with a blank page or use one of the beautifully designed templates. You can add photos from the Photos app, correct spelling and look up words in a dictionary without leaving Pages, and format your documents with a tap.

These apps include many options for sharing files. Students can share files via AirDrop if available (see [“Using AirDrop to Share Content”](#)), send and receive files via email, copy files to and from any standard WebDAV server, and transfer files between an iPad or iPod touch and a computer through iTunes. If you have an Apple TV, students can project their projects to a TV or display. Connecting the iPad or iPod touch to a presentation device—such as a projector or television monitor—makes presentations and other files produced with these apps incredibly portable. For more information, see [“Accessories for iPad and iPod touch”](#) later in this guide.

With Keynote, Numbers, and Pages, you can also open and revise presentations, documents, and spreadsheets on iPad or iPod touch that were created with iWork or Microsoft Office applications on a Mac. You can open and edit Pages and Word

documents in Pages on your iOS device, PowerPoint and Keynote presentations in the Keynote app, and Excel and Numbers spreadsheets in the Numbers app. Or you can use iWork on a Mac to edit files created on your iOS device.

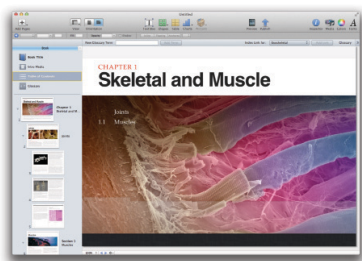
Using iPod touch and iPad for Voice Recording

Recording memos, lectures, interviews, small group discussions, and more is easy on iPod touch (with the built-in Voice Memos app) and iPad (with the addition of a third-party recording app). Capture reading samples for assessment purposes or for students to use for self-reflection. Students learning a foreign language can record themselves to practice speaking and fluency. Dictate instructions for science labs, lesson plans, and research notes, or record to-do lists as you think of them. Record staff or parent meetings instead of transcribing them. You can share the recording by posting the audio file on a website.

With both iPod touch and iPad, you can record with the built-in microphone, attach an external microphone, or use the microphone on Apple Earphones. Use the built-in speaker or headphones to review your recorded audio files. When you connect your iPod touch to your Mac, audio recordings made with the Voice Memos app are copied to iTunes and stored in a Voice Memos playlist. You can also share files by email from the device. You can create iTunes playlists to store each student's recordings in a digital portfolio. Recorded audio files can be reviewed in iTunes, edited in GarageBand on a Mac, and used in other projects, such as a movie narration or courses produced with iTunes U Course Manager.

Creating Content on a Mac for Use on an iOS Devices

You and your students can also use classroom Mac computers to create a variety of education content for use on iOS devices. Produce Multi-Touch books using iBooks Author on the Mac and view them on iPad or Mac. Create multimedia projects, such as video podcasts or music compositions using the iLife apps on a Mac. And you can use the apps in Apple's iWork productivity suite to produce narrated presentations or interactive documents.



Producing Multi-Touch Books with iBooks Author

It's easy to create and publish engaging Multi-Touch books for iPad using iBooks Author, a free app available from the Mac App Store on the Mac. There are so many possibilities—you might want to create a book with background information for a unit, test review materials, lab instructions, or a class collection of short stories, artwork, and movies. Students could use iBooks Author to share a journal about a piece of literature or to present all of their lab reports with images, graphs, and movies of their findings.

To get started with iBooks Author, choose from a collection of Apple-designed templates, each of which comes with a number of page layouts, including a table of contents and a glossary. You can then customize any of the templates.

Add text by typing or by dragging a word-processing document to the book—iBooks Author automatically flows the text into the pages of the book and retains any formatting and styles from the document.

Books come to life with interactive objects that are added with widgets. For example, you can add a photo gallery to a page—a sequence of images that readers can swipe through, each with its own caption. Add review questions—either multiple choice or drag-to-target questions—to gauge understanding. You can also use widgets to add movie or audio files, Keynote presentations, interactive images (complete with labels, panning, and zooming), 3D images, and web-linked data.

In addition to widgets, you can add other images, videos, and digital files as well as tables, charts, and shapes. You can even create a glossary of terms that includes images and related terms.

Share your finished book in the iBooks format. Or you can print it, email it, or export it as a PDF or text-only file. You can also submit your finished book to the iBooks Store.

To learn more about iBooks Author, visit www.apple.com/ibooks-author.

Producing Digital Content with iLife and iWork Apps

Students and teachers can use the iLife and iWork apps on a Mac to create content that can be transferred to and used on iOS devices. The iLife suite—iMovie, iPhoto, and GarageBand—and the iWork suite—Pages, Keynote, and Numbers—are included with every new Mac. Students can share iLife and iWork projects between a Mac and iOS devices. For example, they can start a movie or presentation project on their iOS device and then polish it on a Mac. Or they can create a Keynote presentation on a Mac and then share it on students' iOS devices.

Creating and Sharing ePub and PDF Documents

In addition to creating books for iPad with iBooks Author (see “[Producing Multi-Touch Books with iBooks Author](#)” earlier in this guide), you and your students have an easy way to publish content for iPad and iPod touch with ePub or PDF documents. You can create an ePub or PDF document by using the Pages app.

ePub documents can combine text with movies, audio, photos, tables, and other elements. To create an ePub document, you simply create a document and then export the file in the ePub format. To create a PDF document, you export the document as a PDF. You can then add either type of file to iTunes and copy it to an iOS device. The ePub or PDF document shows up on the iBooks bookshelf just like any other book. Students can then read those publications using the features available with books downloaded from the iBooks Store—they can add bookmarks; look up words in the dictionary; search for, copy, and highlight text; and so on.

Sending Text to iTunes

Another valuable feature on the Mac is a service called “Add to iTunes as a Spoken Track.” With this feature, students can select text in any Apple app, such as a web page in Safari, PDF document in Preview, or report in Pages, and use the Services menu in that app to send the files to iTunes—the text becomes an audio file in a Spoken Text playlist in the iTunes library that they can then sync to their iOS device.

Adding Content to an iOS Device

You can add content to iPad or iPod touch directly on the device or add content using iTunes on a computer. When you use Apple's iCloud service, content that you've added to or changed on one iOS device or computer appears automatically on your other devices or computers. You can also connect an iPad or iPod touch to a computer to sync the contents of the iTunes library, calendars, contacts, and more to the device.

Using an iOS Device to Add Content

You don't need a computer to add content to iPad or iPod touch. You can add content directly to the device in a number of ways:

- Use the App Store to locate and download apps.
- Use the iTunes Store app to find and download music, movies, TV shows, podcasts, and more.
- Use the iTunes U app to browse and download free educational content and courses.
- Use iBooks to download books from the iBooks Store.
- Use Newsstand to add magazines, newspaper, and journals.

See "[Finding and Using Additional Education Content](#)" earlier in this guide for more information.



Using iCloud to Access Content

By setting up iCloud on your devices and computers, any content downloaded to one of those devices or computers appears automatically on your other devices and computers. This content includes purchased music, email, photos, calendars, contacts, notes, and documents such as Pages, Keynote, and Numbers files. iCloud also automatically updates any edits you make to your content. This means if students work on a report in Pages on iPad, for example, their changes are waiting for them on a Mac when they pick their work back up later. With the Photo Stream feature, photos taken with an iPad or iPod touch on a field trip appear automatically on that user's computer or could be shown to the whole class with AirPlay and Apple TV.

For more information about setting up and using iCloud, visit www.apple.com/icloud.

Using iTunes on a Computer to Add Content

The first time you connect iPad or iPod touch to a computer, Setup Assistant appears and guides you to name the device and select sync settings. You can set iTunes to sync music, books, podcasts, iTunes U content, other audio files, movies and TV shows, apps downloaded from the App Store, photos, contacts, notes, calendars, email account settings, and web page bookmarks.

You can adjust sync settings whenever the device is connected to a computer. With the automatic syncing option, you can choose to sync all your content whenever the device is connected to the computer or have iTunes sync just some of it, such as particular playlists, apps, or photo albums. The manual syncing option lets you select the specific items you want to sync when the device is connected to the computer.

How you choose to set up syncing will vary depending on how you manage the iOS devices in the classroom. (See [“Managing iOS Devices and iTunes for Student Use”](#) earlier in this guide.) For example, if you sync a classroom set of iPad devices using an Apple iPad Learning Lab, you may want to sync them automatically with selected content. Students who are assigned their own devices might manually select items to sync from a class computer. This section provides an overview of the syncing options in the settings panes in iTunes.

To set up iPad or iPod touch for syncing:

1. Connect the iPad or iPod touch to your computer and open iTunes (if it doesn't open automatically).
2. In iTunes, click the iPad or iPod touch button (at the upper right of the window).
3. Click the Summary button if the Summary pane isn't already open.



4. Select syncing options in the Summary pane:

- Select the “Automatically sync when this iPhone is connected” option if you want iTunes to open and sync the device automatically whenever you connect it to the computer. Deselect this option if you want to sync only by clicking the Sync button in iTunes or if you want to manually manage content.
- Select “Sync only checked songs and videos” if you want to sync only selected items in the computer’s iTunes library.
- Select “Manually manage music and videos” to turn off automatic syncing in the Music and Video settings panes. If you select this option, you add items to the device by dragging them from the iTunes library. For more information about the Summary pane options, see the user guides for iPad and iPod touch, available at www.apple.com/support.

5. To sync music, movies, TV shows, podcasts, iTunes U items, and books and audiobooks, click the Music, Movies, TV Shows, Podcasts, iTunes U, and Books buttons and select to sync all the titles in that category or just selected ones.

6. To sync the library’s Photos, click the Photos buttons and select the options you want.

7. To select the sync setting for contacts, calendars, email accounts, and web browser bookmarks, click the Info button and make the selections you want.

8. To specify App Store apps to install on iPad or iPod touch from your iTunes library, click the Apps button.

9. When you’re finished, click Apply.

iTunes starts loading your device with the selected content. This can take several minutes if the iTunes library is large.

When the device no longer displays the “Sync in progress” message, you can safely disconnect it.

When you record audio or download items from the iTunes Store or App Store on your iPad or iPod touch, those items are synced from the device back to your iTunes library.

See “Resources” later in this guide for links to additional sources of information.

Accessibility and iOS Devices

In addition to being designed for ease of use and a great user experience, Apple's iOS devices come with built-in accessibility features and learning aids. iPad and iPod touch offer many features and apps that can help accommodate a range of students with special needs. For more information about the iOS accessibility tools, go to www.apple.com/accessibility/ios. For details about using these accessibility features, see the iPad User Guide and the iPod touch User Guide, both available at www.apple.com/support.

Vision

iPad and iPod touch have valuable built-in accessibility features—which are also available on the Mac—for visually impaired students:

- **Invert Colors:** Displays the screen as photonegative, with white text on a black background.
- **VoiceOver:** Gesture-based screen reading technology that uses speech to describe what's happening onscreen. It can also read aloud the contents of a page, such as a book in iBooks or a web page in Safari. When VoiceOver is on, it changes the gestures used to control the device so students who are visually impaired can navigate and use the device much like their sighted counterparts. VoiceOver supports over 30 different languages and can be used with over 40 different models of Bluetooth braille displays.
- **Zoom:** Magnifies images on the screen by up to 500% so elements are easier to see and read.
- **Larger Type:** Display text in alerts and apps such as Calendar and Mail in a larger font size.
- **Bold Text:** Display text in alerts and apps such as Calendar and Mail as bold text.
- **Increase Contrast:** Increase text contrast on difficult backgrounds when possible.

Set up these features on iPad or iPod touch by going to Settings > General > Accessibility. You can also manage these settings in iTunes when the iOS device is connected to your computer. To use iTunes to manage these settings, click Configure Accessibility in the iTunes Summary pane.

If Zoom, VoiceOver, or Invert Colors is only used sometimes, you can turn on the Triple-click Home option in Accessibility settings. With this option, you press the Home button three times to turn that feature on and off.

Voice Control is another feature that visually impaired students can take advantage of on iPod touch (see “Physical and Motor Skills” on the next page).

Siri, Apple's intelligent assistant (which requires Internet access), can help students send emails, add calendar events, set reminders, and more. Siri is integrated with VoiceOver, so students can ask Siri a question and hear the answer read out loud.

Additionally, the Sleep/Wake and Volume buttons on iPad and iPod touch are located and designed in a way that visually impaired students can readily navigate.



Hearing

iPad and iPod touch include accessibility features for those who are deaf or hard of hearing. You can view closed caption content in iTunes and on iPad and iPod touch. You can also view content with subtitles in iTunes and on iPad.

In the Videos app, students can tap the Alternate Track button to choose from subtitles and captions offered by a video. Standard subtitles and captions are usually listed. The iOS device can also be set up for a preference to list special accessible captions for those who are deaf and hard of hearing (SDH), when available.

To set up this preference, on iPad or iPod touch, go to Settings > General > Accessibility > Subtitles & Captioning > Closed Captions + SDH. This also turns on subtitles and captions in the Videos app. You can customize the appearance of subtitles and captions by going to Settings > General > Accessibility > Subtitles & Captioning > Style.

Alternatively, you can turn on closed captioning from the iTunes Summary pane when the device is connected to the computer. Click Configure Accessibility, then select “Show closed captions when available.”

It’s easy to find closed caption movies and iTunes U content in the iTunes Store by using a Power Search. The CC logo appears in descriptions of captioned content.

Mono audio is a helpful feature for some students, especially those who have limited or no hearing in one ear. With it, you can route both right- and left-channel audio into both earbuds so the audio is heard in both. In Settings, go to General > Accessibility and then turn the switch for Mono Audio on or off. You can also set up mono audio in the iTunes Summary pane by clicking Configure Accessibility.

Third-party accessories such as hearing aid-compatible induction ear loops and wireless remote headsets are also available. (See “[Accessories for iPad and iPod touch](#)” later in this guide.)

Physical and Motor Skills

It’s easy to operate the touchscreen of iPod touch and iPad because it requires very simple contact. You can also purchase a stylus to use for touching the screen. The Sleep/Wake and Volume buttons on each device are also designed for ease of use.

The AssistiveTouch feature helps students use their iOS device if they have difficulty touching the screen or pressing the buttons. It can be used with an adaptive accessory, such as a joystick, or on its own to perform gestures. To turn it on, on iPad or iPod touch, go to Settings > General > Accessibility > AssistiveTouch. AssistiveTouch can also be turned on and off by triple-clicking the Home button. For more information about how to change gestures with AssistiveTouch, see the user guide for iPad or iPod touch, available at www.apple.com/support.

With Voice Control on iPod touch, students can use their voice to play music by the name of the artist, album, or playlist, and then pause, change tracks, and shuffle music. To use Voice Control on iPod touch, press and hold the Home button and then speak the item you want when prompted by an audio signal. (Siri needs to be turned off to use Voice Control.)

A custom shortcut can also be created on iPad or iPod touch for a frequently used word or phrase (such as the student’s name and room number). iOS will then type it for the student. To add a shortcut, go to Settings > General > Keyboard, and then tap Add New Shortcut.

When using iTunes, students can also take advantage of the many keyboard and mouse accessibility options included on the Mac, which are set in System Preferences.

Apps for All Learning Styles

The built-in Guided Access feature helps students with autism or other attention and sensory challenges stay focused on the task (or app) at hand. With Guided Access, you can limit an iOS device to stay on one app by disabling the Home button and can restrict touch input on certain areas of the screen. To set up Guided Access and turn it on and off, on iPad or iPod touch, go to Settings > Accessibility > Guided Access.

In addition to the built-in features described in this section, the following are just a few of the many apps available to aid students with diverse needs; each are available for both iPad and iPod touch:

iBooks from Apple Inc.

With the free download of the iBooks app, students can download and read books and customize the pages to best meet their needs. They can enlarge the font size, use zoom, and look up words in a dictionary from the page. And because iBooks takes advantage of the inherent accessibility of iOS, it works seamlessly with VoiceOver. Students can also use the iOS Speak feature to hear text read aloud.

Dragon Dictation from Nuance Communications

The Dragon Dictation app transcribes words you record into text files. This is a great way for students who have a hard time with onscreen keyboards or keyboards in general to express themselves in written format. Once the text has been transcribed, you can edit and send it via email or add it to a blog or wiki site.

Proloquo2Go from AssistiveWare

The Proloquo2Go app is an augmentative and alternative communication (AAC) system for students who have difficulty communicating verbally. Students tap phrases or words that have associated illustrations to add to a message window. You then tap the message window to hear what the student wants to say. Messages can be saved to use again later. Students can customize the app with their own entries and use their own photos or other images.

Sign 4 Me from Vcom3D, Inc.

The Sign 4 Me app is primarily used for learning sign language and as a sign-language translator. A three-dimensional character signs the words that you enter, either once or in a loop. The library includes more than 11,500 words. You can move the character around the screen, zoom in and out, and change angles to see the signing from different views. The app saves words or phrases you've typed so it's easy to repeat them.

soundAMP R from Ginger Labs

SoundAMP R is an app for those who need to amplify the sound coming in externally on the iOS device. It amplifies the sound and you can use the Repeat button to hear what was just said again.

iSeeClearly from The Newport Avenue Group

This app helps readers discern small text. Using the built-in camera of the iPod touch, you can zoom in up to 10 times and freeze images to read them.

Pocket Artic

Developed by speech and language pathologists, the app provides a multisensory approach to articulation drills. It includes more than 3000 built-in flash cards tagged at both word and sentence level and comes with auditory feedback.

To view a more comprehensive list of apps, visit the [Special Education collection](#) on the iTunes Store for iPod and iPhone and for iPad.

Enhancing Learning with iOS Devices

There's no shortage of ways you can use iPad and iPod touch to support teaching and learning. This chapter provides just a few ideas for their use in the classroom.

Increasing Language Skills

iPad and iPod touch can assist students of all grade levels as they gain vocabulary, grammar, spelling, and related language skills. Language learners can benefit from the devices' built-in features, such as spelling correction, as well as apps from the App Store and iTunes U and other iTunes Store resources. For example, elementary students can have fun learning to spell with customized quizzes created with the SpellBoard app, while high school students can gain vocabulary and grammar expertise for college entrance exams with apps such as Pearson GrammarPrep and Word Wit.

iTunes U offers many valuable resources, such as the Grammar Grater audio podcasts from Minnesota Public Radio and the Tennessee Department of Education Language Arts series for different grade levels.

For vocabulary practice, students can create customized flash cards using one of the flash-cards apps from the App Store or produce them on the computer and then review as needed on iPad or iPod touch.



Improving the Written Word

You can use iPad and iPod touch to support all steps of the writing process. Engaging visual mind-mapping apps like Popplet or MindNode are a great way for students to start their writing projects. They can diagram and plan their documents and then export their outlines to use with Pages. The Pages app makes it easy for students to create written assignments—they can pick from the beautifully designed templates, check spelling as they type, and look up word definitions directly from the page.

With apps such as StoryKit, students can create electronic storybooks that include text and illustrations drawn on the screen and sounds recorded with the device. Or they can produce their own animated stories with apps like Toontastic or Puppet Pals.

High school students have 24/7 access to essay assistance with apps like Essay Czar. And you can enhance your writing curriculum with resources from iTunes U, such as Writing Process from the Maine Department of Education, a collection of video resources for educators about the writing process.

And nothing adds excitement to the writing process like creating books on a Mac using iBooks Author for use on iPad or iPod touch. (See [“Producing Multi-Touch Books with iBooks Author”](#) earlier in this guide for more information.)

For more information about apps you can use with your students to support the writing process, see the [Writing Education collection](#) on the App Store.



Building Reading Fluency

iPad and iPod touch offer so many ways for students to read, hear, and record text to develop their reading fluency skills. Compelling iBooks Textbooks and other Multi-Touch books for iPad engage students in the reading experience. And interactive apps like Milly, Molly and the Bike Ride let students read and hear the text of an engaging story (in multiple languages), and they can even record themselves reading it and play back what they've recorded. For more information about apps to build reading fluency, see the [Reading Education collection](#) on the App Store.

Many students find it useful to listen to audiobooks, often following the written text onscreen or in the printed book at the same time. Even for fluent readers, listening to audiobooks can provide audio reinforcement of their reading skills. (See [“Reading Books on iPad and iPod touch”](#) earlier in this guide for more information.) In addition to downloading audiobooks, older students can produce books for use by younger students.

Students can record themselves as they practice reading fluency and save the recordings in an iTunes playlist as a digital portfolio to show progress throughout the school year. (See [“Using iPod touch and iPad for Voice Recording”](#) earlier in this guide.)

Students can also enhance their reading fluency by reading the text of an audio file while they listen to it. For example, if you or your students record a reading sample with GarageBand (or if the Send to iTunes as a Spoken Track service is used to convert written text to an audio file in iTunes, described in [“Creating Content on a Mac for Use on an iOS Device”](#) earlier in this guide), the text associated with the recording can be added in iTunes. By doing this, students can tap the screen and view the text when they listen to the audio on their device. To do this, select the audio file in iTunes and then choose File > Get Info. Click Lyrics in the toolbar and either choose Edit > Paste to paste text you copied from a website or document, or type the text directly. Next, click Options in the information window toolbar, and then choose Music from the Media Kind pop-up menu. After the audio file is synced to the iPad or iPod touch, the student just taps the screen as the audio is playing to see the text.

Many resources are specifically designed to aid English language learners. For example, the Pocket English (ESL) app features extended dialogues along with lesson reviews, vocabulary lists, and other features to reinforce learning. Each of the three Pencil Bot ESL apps combines videos and interactive mini-games for different levels of English language learners. Other apps, such as Starfall ABCs, help young learners practice language and phonics skills. The iTunes Store offers other resources for ELL students and their teachers, such as podcasts designed for ESL students and the University of North Carolina's School of Education English as a Second Language (ESL) Workshop video, audio, and transcript files available in iTunes U. For more information about apps that support English language learners, see the [English as a Second Language Education collection](#) on the App Store.

Learning World Languages

Students who are studying a world language can download apps to practice, such as the Byki or uTalk apps for a variety of languages, or interactive books in another language, such as Little Red Cap, a French version of Little Red Riding Hood. They can quickly look up words and hear them pronounced in different languages with a variety of translator apps. Using resources available on iTunes U and the iTunes Store, they can listen to audiobooks and other recordings (such as the news in Spanish), practice dialogues with iTunes U language courses, and watch videos to learn words and phrases. Students will enjoy using Word Lens—it allows you to instantly translate printed words from one language to another using the video camera. They can also record themselves

using video or voice recording to practice the language and improve their fluency. For more information about apps for learning world languages, see the [Foreign Languages Education collection](#) on the App Store.



Increasing Reading Comprehension

Reading books with iBooks—whether they’re iBooks Textbooks or literature books from the iBooks Store—provides students with many ways to increase their reading skills and deepen their understanding of what they read. Younger students have immediate access to a dictionary to look up words as they occur in the book, and they can increase the font size. Older students can use the search and highlight tools as they analyze and write about literature, such as searching for a recurring symbol or quotes by a specific character or marking passages they want to return to later.

Interactive book apps are another way to help students strengthen their reading skills and enhance their understanding. With the Green Eggs and Ham app, for example, students hear the book read aloud while viewing the text and can tap items onscreen to hear and see the word for that object. Elementary school students can work on their ability to read for details by using the MiniMod Reading for Details app. Older students can use the Shakespeare in Bits: Romeo and Juliet app to read, watch, and explore that play using built-in comprehension tools.

iPad and iPod touch offer additional tools to support reading—for example, students can take notes with the Notes app while they listen they can pause and use Safari’s search features to look up something on the Internet when they have a question.

When and Where in the World

You can support history and social studies with iPad and iPod touch. The versatile resources in iTunes U give students an opportunity to experience different periods of history or other locales. Students studying American history can view films of the Spanish-American War (actually made between 1898 and 1901) or the streets of Chicago in 1897 from the Library of Congress in iTunes U, or listen to Richard Nixon’s Presidential tape recordings available from America Public Media. They can create an interactive journal in Pages on a Mac that includes the primary source videos, audio, and images and publish it as an book created with iBooks Author or an ePub document to share with other students and family members.

They can enrich their learning with interactive game apps such as National Geographic’s GeoBee Challenge, The Oregon Trail, or Pearson’s World History; travel through history with Virtual History ROMA and Back in Time (both for iPad); or find information with apps such as The Presidents, History:Maps of World and World Atlas HD from National Geographic.

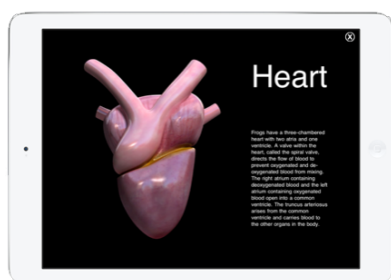
Many additional resources are available for history and social studies from the iTunes U [Primary Sources collection](#) as well as the [Geography](#) and [History](#) Education collections on the App Store.

Mobile Math

No matter what their level, students will enjoy math learning with iPad and iPod touch. These are versatile tools to support the learning of mathematics, personalize student learning, and extend learning beyond the classroom. Students can present and analyze data in spreadsheets with the Numbers app on iPad. They can also perform calculations and check their work with the Calculator app on iPod touch or with graphing and other calculators and conversion tools available for iPad and iPod touch.

They can reinforce their math skills with hundreds of engaging, interactive apps available from the App Store. Math apps provide you with an easy way to customize learning for particular students—you can include specific apps on a student's iOS device to support that student's learning needs. Elementary school students can practice math skills with the Math Bingo app, solve problems on a digital chalkboard with MathBoard, and practice fractions with Motion Math HD—Fractions. Older students can deepen their understanding of algebra with Algebra Touch or challenge their critical thinking skills with NineGaps, a Sudoku-like game for building math skills. For information about other math apps, see the [Math Education collection](#) on the App Store.

iTunes U also offers many math-related resources, allowing students to learn math in different ways. Some examples are videos about algebra from the Khan Academy and materials about area and perimeter (and much more) from the Tennessee Department of Education Study Partner-Math program.



A Deeper Look at Science

iOS devices can enrich science teaching and learning at all grade levels with their highly interactive and engaging interface and rich collection of science tools and resources. Students can conduct scientific explorations using digital science tools such as PASCO Probeware or the ProScope Mobile digital microscope used with apps on iPad and iPod touch. With such investigations, students use real scientific tools and can quickly collect large amounts of real-time data that they can later use in their projects.

A broad array of valuable science resources is available for use with iPad and iPod touch, such as The Elements, a visual exploration of elements in the periodic table; Solar Walk, a 3D exploration of space; Reaction101; Frog Dissection for iPad; SimplePhysics; and the many science iBooks Textbooks available for iPad. You can browse the Science category of iTunes U to find content for scientific study, from examples of bird songs to video talks on physics and soil composition and whole courses on biology. To learn about additional science apps, see the Physics, Chemistry, Life Science, and Astronomy and Earth Science [Education collections](#) on the App Store.

For lab classes, you can create video podcasts with iMovie with lab experiment instructions that can include narration, text, video, and photos for students to access at any time on a mobile device. Students can then record findings with the Notes or Pages app, time data collection with the LabTimer app, record their results with voice recordings, take photos and videos of their explorations with the iPad or iPod touch camera, and compare their results with images from similar experiments on the Internet.

Exploring Art and Music

iPad and iPod touch are amazing resources for learning about and making art and music. Students can create art on iPad and iPod touch with just their fingers using exciting painting and drawing apps such as Doodle Buddy, Brushes 3, and SketchBook Mobile. Add effects and edit photos with apps such as iPhoto, TiltShift Generator (for creating retro miniature pictures from photos), CameraBag, and Adobe Photoshop Express. View art collections around the world via apps such as Love Art: National Gallery of London, Musée du Louvre, and Art Authority, a collection of works by major Western artists throughout history, and download walkthroughs and talks on iTunes U from institutions like the Asian Art Museum, Museum of Modern Art, and London's Victoria and Albert Museum. For more information about apps for creating art, see the [Painting and Drawing Education collection](#) on the App Store.

With the GarageBand app, students can play a wide variety of musical instruments. They can also create music using apps such as Touch Band, Pianist Pro, Violin Player, and Shiny Drum, all of which can be used with iPod touch as well as iPad. You can record vocal performances with GarageBand or on iPod touch with Voice Memos, or capture video of performances with the built-in camera on iPad or iPod touch and then edit it with the iMovie app. Apps such as Karajan Beginner and resources from iTunes U are available for teaching music theory. And with resources from iTunes U, students can learn how to compose and explore different types of music, from Chicago blues to Indian ragas. For more information about music apps, see the [Music Education collection](#) on the App Store.

Enhancing Productivity for Educators

iPad and iPod touch, provide educators with versatile tools for the school day and beyond. Administrators and teachers, including resource specialists, can use voice recording to record observations during classroom walkthroughs, and then email those files to teachers. You can record voice memos about students and email them to their families.



The apps on your iOS device make it easy to stay in touch using the Mail app, take notes at any time and then email them to others with Notes, make to-do lists with Reminders, read articles with Newsstand, keep track of your schedule with the Calendar app, and create presentations and movies to show the class. And by using iCloud, you'll have access to your up-to-date documents, photos, calendars, notes, and more on all your iOS devices and your Mac computer.

The iBooks Author app on a Mac is an invaluable productivity tool for creating classroom materials for students to access on their iPad or Mac. To learn more, see [“Producing Multi-Touch Books with iBooks Author”](#) earlier in this guide.

You can use iTunes U Course Manager to put together all of your course materials for students to access using the iTunes U app on their iOS device. Courses can include audio, video, presentations, documents, PDF documents, iBooks Textbooks, ePub books, iOS apps, and web links. The free iTunes U app gives students access to all your course materials in a single place. See [“Resources”](#) later in this guide for more information about iTunes U.

You can download a large variety of other apps to support your teaching, including apps to access your school's information system, interactive polling apps that allow students to respond to your questions using their iOS device, and apps to track student attendance and assignments. See the [Apps for Teachers collection](#) on the App Store to learn more specific apps.

There's never enough time in the day for educators, but iPad and iPod touch can even help you fit professional development into your packed schedule. With the mobility of iOS devices, you can review and reuse development materials when and where it's most convenient. Download professional development content to your device and listen while you're at the gym, driving to and from work, or doing chores at home. View videos of new directives and techniques without waiting for the next face-to-face training session. And you can pause listening to take notes, email an idea to a colleague, or look up additional information on the Internet—all on your iOS device.

Many types of professional development content are available for iPad and iPod touch. An abundance of free education resources are available, including a wide variety of lectures, discussions, and other materials from iTunes U as well as podcasts from the iTunes Store and other sites. Commercial materials, such as books, are also available from the iTunes Store and iBooks Store. You can sync all of this PD content to iPad and iPod touch for convenient learning on the go. Here are just a few of many professional development resources available free from iTunes U:

- Teacher Development—Edutopia
deimos3.apple.com/WebObjects/Core.woa/Browse/edutopia.org.1648918858.01648918860
- Center for Teaching and Learning—Stanford University
itunes.apple.com/itunes-u/center-for-teaching-learning/id385634612
- University of South Florida—Professional Development Resources
deimos3.apple.com/WebObjects/Core.woa/Browse/usf.edu.1273012993.01273013001

Accessories for iPad and iPod touch

Many types of accessories are available to enhance the use of iPad and iPod touch for teaching and learning. These include cables and connectors for connecting a TV or projector to your iOS device, such as the Lightning to VGA adapter, headphones with a microphone for recording, speakers, cases, power adapters, and more.

External speakers that connect to iPad, iPod touch, or a Mac are helpful when you want to play back content from the device or a computer for the whole class to hear. The iPad Dock gives you easy access to a dock connector port for syncing or charging and an audio line out port for connecting to powered speakers with an optional audio cable. Cases can come in handy if you plan to have students take the devices out of the classroom.

Apple TV allows you to watch content in iTunes or on iPad or iPod touch using AirPlay. And with the Remote app, you can even use the iPad or iPod touch to control Apple TV playback on your TV.

For details about accessories for iPad and iPod touch, visit www.apple.com/ipad/accessories and www.apple.com/ipod/accessories.

Resources

Apple Websites

Apple has extensive resources to learn more about iPad, iPod touch, and iTunes. At these sites, you'll find tutorials, lesson plans, and much more.

Learning with iPad

- Information about iPad features, iTunes U, apps, and more
www.apple.com/education/ipad

General Resources for Teachers and Administrators

- Resources for iPad—includes guidelines, tutorials, iBooks Author Support Communities, funding information, and more
www.apple.com/education/ipad/resources

Apps for Learning

- Information about apps for mobile learning, organized by subject and function
www.apple.com/education/ipad/apps-books-and-more
- Education Collections—apps organized by category, including math apps, ESL apps, apps for teachers, and much more
<https://itunes.apple.com/WebObjects/MZStore.woa/wa/viewRoom?fclid=549872333&mt=8>
- Apps for Every Grade—apps organized by grade level
<https://itunes.apple.com/WebObjects/MZStore.woa/wa/viewMultiRoom?fclid=664694610>

iTunes

- iOS: Syncing with iTunes
support.apple.com/kb/HT1386

iPad

- Videos and other information about iPad features
www.apple.com/ipad
- iPad Support, including iPad User Guide
www.apple.com/support/ipad

iPod touch

- Information about iPod touch features
www.apple.com/ipodtouch
- iPod touch Support, including iPod touch User Guide
www.apple.com/support/ipodtouch

iTunes U

- iTunes U and iTunes U app overview
www.apple.com/apps/itunes-u/index.html

- iTunes U Collections
itunes.apple.com/WebObjects/MZStore.woa/wa/viewRoom?fcId=395458516&ign-mscache=1
- iTunes U Guidelines: Creating a Course
images.apple.com/support/itunes-u/docs/iTunesU_Course_Guidelines_011912.pdf
- iTunes U Support Communities
discussions.apple.com/community/itunes_u/
- iTunes U Course Manager tutorial
www.apple.com/education/tutorials/#itunes-u-course-manager

iTunes Support

The iTunes product support pages are packed with information to help you learn how to use iTunes and assist you with any questions you may have. The support resources include all iOS device manuals and information about system requirements and file locations. User discussions, articles, and the latest versions of iTunes updates can be found here.

www.apple.com/support/itunes

Accessibility

- Accessibility—information about features included with iPad, iPod touch, OS X, iTunes, and other resources
www.apple.com/accessibility
- Apple Special Education
www.apple.com/education/special-education

Creativity Apps for iOS and for Mac

- Overview of the iLife apps (iPhoto, iMovie, and iPhoto) and the iWork apps (Pages, Numbers, and Keynote)
www.apple.com/creativity-apps/ios

Apple Professional Development

Apple offers a range of Professional Development workshops in leadership, basic skills, curriculum integration, and more. These hands-on workshops are held at your school or district site, and they're designed to make sure you're using your Apple products most effectively to transform teaching and learning. Apple Professional Development offers high-quality workshops designed by Apple and delivered only by Apple-certified education professionals. The iOS Devices workshop helps teachers discover how iOS devices can improve student learning both in the classroom and at home. Content focuses on iPad features, including built-in apps and features for those with special needs. Participants also explore educational resources on iTunes U and learn how iOS devices can be used as personal tools for teaching and learning. Download the [Apple Professional Development Catalog](#) and explore the range of offerings in four categories: Leadership, Foundations, Curriculum, and Support.

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Some applications are not available in all areas. Application availability and pricing are subject to change. Wi-Fi Internet access required for some features; broadband recommended; fees may apply.

The iTunes Store is available only to persons age 13 or older in the U.S. and many other countries; see www.apple.com/support/itunes/ww for a list of countries. Requires compatible hardware and software, and Internet access (fees may apply). Terms apply. See www.apple.com/itunes/whats-on for more information. May 2014 L531459A-en_US