



# Free Technology for Teachers

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<http://www.freetech4teachers.com/2013/12/by-request-ten-helpful-resources-for.html>

## Ten Helpful Resources for Middle School and High School Math Teachers

[Get the Math](#) is a super website designed to provide teachers and students with Algebra-based mathematics challenges. Get the Math tries to put the challenges in the context of the "real world" scenarios of fashion design, video game design, basketball, restaurant management, movie special effects, and music production. [Get the Math](#) features short videos of professionals explaining and showing how mathematics is used in their professions. After watching the videos students try to complete a series of challenges based upon the work done in the professions of fashion design, video game design, and music production. For example, after watching the [Math in Fashion video](#) students have to design a shirt to match a specific price point

A couple of months ago Curriki released a [series of six PBL geometry projects](#) that could make geometry interesting and fun for high school students. Curriki's new [geometry course](#) features six PBL projects. Each of the projects is aligned to Common Core Standards. The course is not a self-directed course for students. The course is designed to be taught by mathematics teachers who want to incorporate PBL. The projects in the course can be used in sequence or used as stand-alone units. All materials needed for leading the projects are included available on the Curriki site. You will have to create an account and sign-in in order to access the materials. Curriki accounts are free.

[Opus](#) is a service that aims to help middle school mathematics teachers discover sample math problems aligned to Common Core standards. To find problems on Opus search by entering a topic and selecting a grade. You can also find problems by clicking the "[browse the Core directly](#)" link on the Opus homepage. Either way when you find a problem you can save it to your free Opus account where you can then generate a Word doc or Google Document of all of your saved problems. You can also create an answer sheet in your Opus account.

[MathDisk](#) is a service that teachers can use to develop interactive mathematics worksheets. Through MathDisk's "Math Builder" tool you can design mathematics models that your students can use online. The models and worksheets you develop online can also be downloaded to use offline if you also install the MiBook software on your desktop or on your Android device. If you don't have time to create new materials, the [MathDisk](#) gallery has pages of models and worksheets that you can choose from. Everything in the gallery, like everything you create through MathDisk, can be downloaded and or embedded into your own website or blog.

[TenMarks](#) is a service that offers an online mathematics program designed to supplement your in-classroom mathematics instruction. All of the problems in TenMarks' bank of more than 20,000 are

aligned to Common Core standards. Within [TenMarks](#) teachers create class rosters and accounts for their students. After creating rosters teachers can assign practice problems to students. Teachers can assign problems based on the Common Core Standards that their students are trying to reach.

If you use GeoGebra in your classroom, you should bookmark GeoGebraTube. [GeoGebraTube](#) is a community site for teachers who teach with [GeoGebra](#) to share and find a wide range free resources. On GeoGebraTube visitors will find user-created tutorials, lessons, and worksheets. Visitors can search for resources by age group, language, and material type. All materials are freely available for noncommercial re-use.

[Math Open Reference](#) is a free online reference for geometry teachers and students. [Math Open Reference](#) features animated and interactive drawings to demonstrate geometry terms and concepts. The table of contents on [Math Open Reference](#) is divided into four basic categories; plane geometry, coordinate geometry, solid geometry, and function explorer tools. Click on any subject in the first three categories to find definitions, examples, and interactive drawings. In the function explorer category users can select linear functions, quadratic functions, or cubic functions to explore how changes in variables affect the graphed output.

[Dan Meyer](#) has a site called [101 Questions](#) on which he is sharing images and videos as prompts for developing math questions. Each image and video has a 140 character field in which you can enter your question. Questions are compiled and can be Tweeted. Take a look at the [top 10](#) to get a feel for what you will find on 101 Questions. I've embedded one of the videos from [101 Questions](#) below. I won't pretend to be able to explain the larger purpose of the site as well as Dan does, so I'll just encourage you to go [read his blog post about it](#). And if you need more background on who Dan Meyer is, watch his TED Talk [Math Class Needs a Makeover](#).

[ULearniversity](#) is a free site featuring arithmetic and algebra lessons. On ULearniversity you can watch tutorial videos and practice the concepts taught in the videos. ULearniversity provides instant feedback on your practice problems. As a registered ULearniversity user you can track your progress.

[Math Shorts](#) is the latest addition to Planet Nutshell's line-up of animated educational videos. [Math Shorts](#) will eventually have twenty videos in the series. Right now the series contains eight animated videos for elementary school and middle school students. Each of the videos has a Common Core standard aligned to it. All of the videos have supporting materials from PBS Learning Media attached to them.