

Mathematics on the Web

The internet is a vast resource, providing many websites about mathematics or math education. Rather than always creating a project or animation from scratch, you can often save time by finding it already done on the internet.

Here are some interesting and/or useful free math websites:

<http://mathforum.org/dr.math/dr-math.html>

A collection of questions (with answers) submitted by students and teachers around the world. Answers provided by specially recruited college students and professors. The site no longer allows users to submit questions, but all the archives are still there. Under “Browse the Archive”, select High School. Then click on some the links to see the problems and answers.

<http://mathschallenge.net/>

British site providing sets of recreational math problems. A new set is posted each month with answers posted at the end of the month. Archives from October, 2000 to present.

<http://www.cut-the-knot.org/binary.shtml>

Converts numbers from one base system into others (from binary through hexadecimal).

<http://www.pbs.org/teachersource/math.htm>

Contains lesson plans and video clips for various topics from grades K-12. Scroll down and click on the link “View Math Resources.”

<http://www.intmath.com/>

Contains many interactive animations to demonstrate a variety of math concepts.

Assignment: Find 4 websites that are about either math or math education. At least 2 of the 4 websites should be ones that you did not know about before. These websites should be free and available to everyone. You may not use any of the sites listed above. Write a short (2-3) paragraph essay about each website. The first paragraph should explain what the site is about. If the site is purely informational, explain in detail what information/resources it provides. If the site permits user interaction, explain in detail the mechanics of using the site (i.e., what to enter, where to enter it, what response the user receives). If appropriate, include screenshots or icons from the site. The remainder of the essay should be about the ways you would use this site in either your teaching or in your own mathematical learning. Try to include specific examples of how you might incorporate it – don’t just say “I would use this in my class”. Make sure to include the full URL for the site.