

Fostering Success in Mathematics



Family involvement is an essential element for a student's success in mathematics. You are one of your child's most valuable resources. Learning about ways to support your child's mathematical development is the first step. This handout will provide an overview of ways to foster your child's success.

Questions to Support a Child's Math Homework

Practice is an essential part of a student's mathematical understanding. Homework can sometimes be a struggle for students. The questions below can guide parents as they support their children through this challenge.

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| <ul style="list-style-type: none"> • What is the problem you're working on? • What do the directions say? • What words do you not understand? • Where should you begin? • What do you already know that can help you solve the problem? • What have you done so far? • Where can we find help in your notes, textbook, online? • Do you have similar problems to look at? • Are there manipulatives that would help? | <ul style="list-style-type: none"> • Can you draw a picture or diagram that would help? • Can you explain what you did in class today that might help? • Did your teacher work examples today? • Who can you call to get help? • Can you go onto another problem & come back to this one later? • Can you mark this problem so you can ask the teacher for an explanation tomorrow? • Can you tell me where you are stuck? |
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A Small Sample of Jobs that Require Math Skills

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| <ul style="list-style-type: none"> • Car Stereo Installer • Radio DJ • Athletes • Teacher • Nurse • Fashion Designer • Electrician • Carpenters • Computer Programmers • Painter • Event Planner | <ul style="list-style-type: none"> • Clerk or Cashier • Jet Fighter or Pilot • Cameraman • Accountant • Secretary • Construction worker • Technicians • Politicians • Farmers • Business owner • Travel Agent | <ul style="list-style-type: none"> • Engineer • Sports Announcer • Air traffic controller • Attorney • Scientist • Landscaper • Managers • Salesmen • Researchers • Animator • Customer Service | <ul style="list-style-type: none"> • Astronaut • Mechanic • Race car driver • Physician • Meteorologist • Plumber • Military Personnel • Payroll • Maintenance • Firemen • Taxi Driver • Bank Teller |
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Helpful Websites

There are countless websites that can provide assistance to both students and their parents. The list below is just a starting point of exploration. Some of the sites listed below will provide additional practice of identified skills through the completion of problems. Others will reinforce skills through the use of games.

<https://wcpsscsmath.pbworks.com/w/page/66952749/Math%20Teaching%20Videos> WCPSS videos by grade level

<http://www.math.com/> - Glossary, calculators, formulas and tables, homework help, practice and games.

<http://www.mathsisfun.com/definitions/> - Illustrated math dictionary

<http://www.kutasoftware.com/> - Practice worksheets

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<http://www.ixl.com/standards/common-core/math> - practice problems- there are a limited number you can do without needing to pay for a subscription.

<http://thinkingblocks.com/> - Practice problems for addition, multiplication, fractions and ratios.

<http://www.figurethis.org/index.html> - Challenge problems

<http://illuminations.nctm.org/> - Activities

<http://www.learningplanet.com/index.asp> - Games and homework help

<http://mathforum.org/dr.math/> - Ask Dr. Math – homework help and formulas

<http://www.coolmath-games.com/> - Math games

<http://www.aaamath.com/> - Interactive math lessons

<http://nlvm.usu.edu/en/nav/vlibrary.html> - National Library of Virtual Manipulatives – interactive activities and manipulatives for math topics

<http://www.khanacademy.org/> - Videos on many math topics created by teachers

<http://education.ti.com/en/us/home> Texas Instruments website that has activities and download applications for TI calculators

<http://www.sascurriculumpathways.com/portal/> - Interactive lessons for students. You will need an account but your school should already have one you can link to.

http://www.phschool.com/atschool/cmp2/active_math/index.html This website has interactive activities. It is from the makers of CMP2 but is free to anyone to use.

<http://www.webmath.com/> Resources to look through organized by topic.

<http://www.algebra-lab.org/practice/practice.aspx> Great set of review questions that students can choose based on topic

<http://www.math-play.com/> Free online math games

<http://www.geogebra-tube.org/> A resource where students can create their own drawings like geometry sketchpad but there are also archived pages where other teachers have made their own drawings. For example you can find a drawing proof for the Exterior Angle Theorem.

Glossary Links

http://corestandards.org/assets/CCSSI_Math%20Standards.pdf Common Core State Standards for Mathematics (glossary page 85)

http://mathlearnnc.sharpschool.com/UserFiles/Servers/Server_4507209/File/Instructional%20Resources/GlossarySP.pdf North Carolina DPI Glossary of Mathematical Terms for Parents and Teachers