

eMathTest.com

Computer Adapative Math Worksheets

eMathTest Starter Guide

FREE MATH WORKSHEETS TAILORED TO YOU

eMathTest Starter Guide (Version 1.1)

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Table of Contents

Chapter I: Introduction	.3
Chapter II: Register Student User Account	.4
Chapter III: Check Workbook List	. 5
Chapter IV: Create Worksheets	.6
Chapter V: Submit Answers and Get Feedback	. 7
Chapter VI: Learn Worksheet Feedback	8
Chapter VII: Best Practices for eMathTest	.9
VII.1 Best Practice 1: Get Used to the eMathTest Self-directed	
Learning Features	.9
VII.2 Best Practice 2: Maximizing Benefits of New Technology with	
Old Wisdom	.9
VII.3 Best Practice 3: Work eMathTest with Teacher1	0
Chapter VIII: References1	2



Chapter I: Introduction

This chapter introduces eMathTest.com.

Welcome to eMathTest Student Account Starter Guide! eMathTest, Inc. is a global math education company operating http://eMathTest.com website which is based on the Computer Adaptive Formative Assessment (CAFATM) system invented by Professor Jaehwa Choi at the George Washington University's Educational Research Methods program; Professor Sunhee Kim at Howard Community College's mathematics division; and Professor Kyongil Yoon at Notre Dame of Maryland University's computer studies department. The website will lead a new generation of mathematics assessment through the following features:

- A state-of-the-art computer adaptive formative assessment system algorithm that provides individually adapted worksheets (diagnosis) and immediate feedback (treatment), which are continuously adjusted to each student's learning progress, pace and style.
- Full alignment with the Common Core State Standards for Mathematics
 (http://corestandards.org) to be robust and relevant to the real world, reflecting the math knowledge and skills that young people need for success in college and careers.
- Support of offline learning environments as well as online based learning. Printable assessments (worksheets, quizzes, practice tests, or exams) will greatly enhance classroom and home education.
- All K to 12 grades (by end of this year; currently 3 to 12 grades) assessments carefully aligned with nationwide standardized tests, e.g., NAEP (National Assessment of Educational Progress).
- Free service for all student accounts to maximize the accessibility of the new developments.

This document first began as an effort that helps teams within eMathTest, but we thought it would be just as useful to users that are new to eMathTest and wish to improve their math learning with eMathTest services. Although this guide would not teach you the math, following the best practices outlined below will maximize the benefits of eMathTest services. We truly hope this guide gives you some fresh ideas on how to use eMathTest services, and we'd love to hear your questions, feedback, and success stories in the eMathTest Support page, http://eMathTest.com/Support. Up your math health with eMathTest!



Chapter II: Register Student User Account

This Chapter shows step by step ways to register a student user account.

Visit eMathTest website

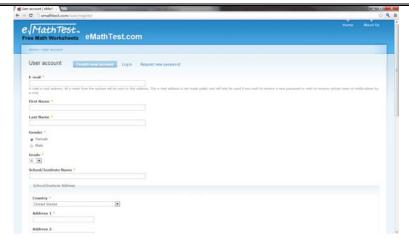
Visit eMathTest website (eMathtest.com) using your favorite internet browser.



Visit the user register page

Click Create new account link in the left panel of the main page, or directly visit the page emathtest.com/user/register.

Complete the information and **click Create new account** button at the bottom of the page. For the e-mail, please use a valid e-mail address. A welcome message with further instructions will be sent to your e-mail address.



Click the link in the verification email

After completing the user registration form, please **check your email for the verification email** from eMathTest.

If you click the link in the body of the email, you will be directed to the webpage you can set password and other information.

Thank you for registering at <u>eMathTest.com</u>. You may now log in by clicking this link or copying and pasting it to your browser:

http://www.emathtest.com/user/reset/127/1350511883/6MrCmwolQD4X6QFn0yC

This link can only be used once to log in and will lead you to a page where you can set your password.

After setting your password, you will be able to log in at http://www.emathtest.com/user in the future using:

Set password and other information

In the webpage from the link in the verification email, now you can set your own password. You can also

change/retrieve password information in the page in future. Once you set up password by clicking update profile button, now you are ready to use eMathTest! Congratulations!



Chapter III: Check Workbook List

This chapter explains how to check workbook list.

Login to eMathTest Website

Now you can **login** to the eMathTest website with your email and the password you set up in the previous step.



Check Your Workbook List

Once your login to the site, you can see your workbook list in the main content part of the home page. The default workbook is the **Basic eMathTest Workbook** which covers all K to 12 grades.

If teacher account user(s) includes you as his/her student, you can have multiple workbook modules (e.g. SAT or ACT workbook module).

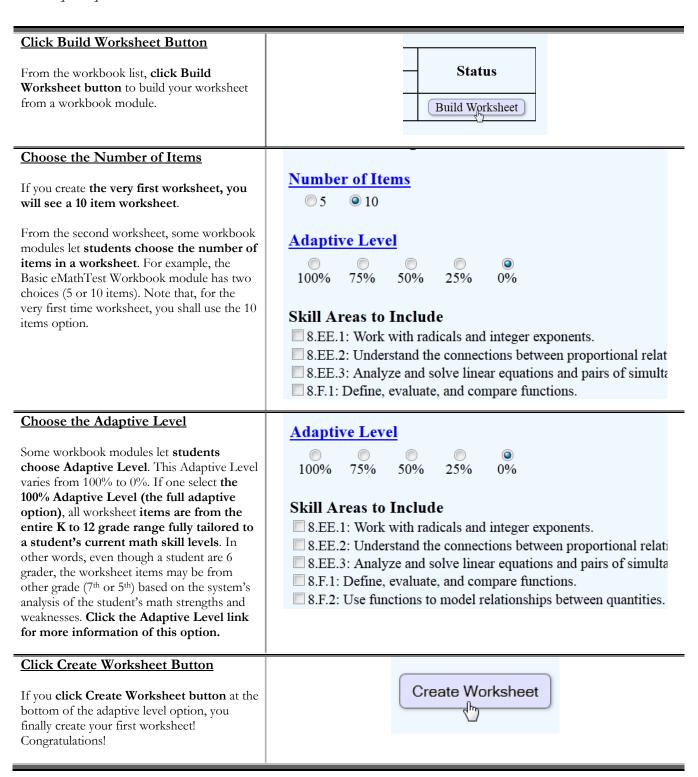
Contact your math teacher(s) whether they can include you as a student.

My Workbooks User ID student3@emathtest.com Time 8:37:46 PM on 10/26/2012 Workbook Name Teacher #Workbooks Total Today Status Basic eMathTest Workbook N/A 1 0/1 Build Worksheet



Chapter IV: Create Worksheets

This chapter explains how to create worksheets.





Chapter V: Submit Answers and Get Feedback

This chapter explains how to submit answers and get instant feedback.

Choose Answers e/MathTest Worksheet of [eMathTest Default Workbook] Once you built a worksheet, you can work via User ID student2@emathtest.com Time 9:12:33 AM on 10/22/2012 computer monitor with mouse (On-line mode) or print out the worksheet with pencil 1. What number is 5 units left of the number - 9 (Off-line mode). A) ○ -4 B) ○ -45 C) ○ 14 D) ○ 4 E) ○ -14 Click the Print Page button, et to print out the worksheet. ▶: ○Full confidence ○ Partial confidence ○ No confidence ○ No attemp What number is 3 units left of the number = 10? A) [□] −13 B) [□] −30 Select Answers for Items 1. What number is 5 units left of the number = 9? A) [□] −4 Once you solved an item, you can mark B) ◎ -45 answer for an item by clicking one of the C) 0 14 radio button options. By default, all items are multiple choice and the best choice D) 0 4 should be selected, otherwise stated. To get E) ● -14 feedback, you must select answer for all items. 1. What number is 5 units left of the number - 9? Provide Meta-cognition Input A) ○ -4 Some workbook module(s) let you provide B) [◎] − 45 the meta-cognition information. The meta-C) 14 cognition is information how one knows D) 0 4 the knowledge/understanding about the E) ● -14 item in addition to the answer choice for the item. Click the meta-cognition image for more information. Submit Answers and Get Feedback Submit Answers and Get Feedback If you submit answers and meta-cognition Submit Answers / Get Feedback inputs by clicking Submit Answers and **Get Feedback button** at the bottom of the worksheet page, the system will build instant feedback on your worksheet answers!



Chapter VI: Learn Worksheet Feedback

This chapter explains how to understand the details of worksheet feedback.

Save Feedback Page

The feedback page contains valuable study resources (e.g., summary results, correct answer, solution steps, etc.) and you can access only one worksheet feedback (the latest one) at a time. So, it is strongly recommended to print out and file this page as future study resources.

Click the Print Page button, to print out the feedback.

Feedbacks on Worksheet of [eMathTest Default Workbook] User ID student2@emathtest.com Time 9:12:33 AM on 10/22/2012 This page contains feedbacks on your answer inputs for the workbook. Because these feedbacks contain valuable study information (e.g., correct answer or solution steps) and you can access only one workbook feedbacks at a time, it is strongly recommended to print out and file this page for future study resources.

Understand Details of Each Item Feedback

Each item feedback contains:

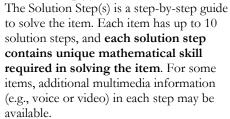
- The original question and choices
- The selected answer and correct answer

The green check mark image represents the selected answer is correct. The red cross mark image represents he selected answer is incorrect.

- Meta-cognition input
- Alert level

The Alert Level is an item level feedback combining various pieces of information such as answer, meta-cognition input, student's achievement level, and relative item/skill importance, etc. This alert level is ranged from no alert (lowest alert level) to five alerts (highest alert level). Focusing on reviewing the higher alert level items over lower alert level items is recommended.

• Solution Step(s)



1. What number is 5 units left of the number -9?

1. What number is 5 units left of the number - 9

- A) -4
- B) -45
- C) 14
- D) 4
- E) -14
- E (✔) | E | Full confidence | E | | ■
- 6
 - 1) 5 units left of the number -9 means (-9)–(5) and that is -14.



Chapter VII: Best Practices for eMathTest

This chapter introduces the best practices in using eMathTest services.

VII.1 Best Practice 1: Get Used to the eMathTest Self-directed Learning Features

eMathTest provides various system environments for users to be self-directed learners who show a greater awareness of their accountability in making math learning meaningful and monitoring themselves. These features include:

- Choose between on-line mode and off-line mode
- Choose the number of items in a worksheet
- Choose the worksheet adaptive level
- Schedule the workbook and feedback time

Once students get used to the eMathTest self-directed features, they become more curious, motivated and persistent, independent, self-disciplined, self-confident and goal-oriented. These self-directed learning options allow eMathTest users to be more effective learners and social beings. Furthermore, if students properly get used to these features, these self-directed learning features can encourage students to develop their own rules and leadership patterns.

Therefore, it is impetrative to efficiently get used to these options to fully maximize the benefits of these self-directed learning features. Sufficient parental guide/involvement for this state is strongly recommended.

VII.2 Best Practice 2: Maximizing Benefits of New Technology with Old Wisdoms

eMathTest is running on the top of the state of the art algorithm, *Computer Adaptive Formative Assessment* TM system which is new generation of math learning and assessment system including various technological and theoretical features. However, this futuristic and technology based system is eventually a helper and supporter of students' learning. The traditional off-line math learning wisdoms (e.g., Math efficacy building, time management skill, note taking skills, etc) are also applied to throughout eMathTest features. The benefits of the eMathTest services will be fully maximized when the eMathTest practices are well aligned with traditional off-line learning environment.

Therefore, it is important to use eMathTest services for off-line math learning/education: 1) print out worksheets for paper-pencil mode; 2) print and file the feedback pages for future learning resources; 3) work the worksheets with parents, teachers, and peers; or 4) study text books for the concepts behind worksheet items.



VII.3 Best Practice 3: Work eMathTest with Teacher

Although eMathTest is providing great on-line based self-learning environment, eMathTest also provides Teacher Module. Because this Teacher Module features are especially designed to help teachers effectively teaching student, the student side benefits of eMathTest services can be dramatically improved if students work with teacher(s). The features of the Teacher Module include:

- Additional Workbook Modules include SAT or ACT Workbook Modules
- More than One Worksheets Per Day
- More Items in a Worksheet
- Scheduled Worksheet
- Teacher Dedicated eMathTest Gateway Page
- Student Progress Reports Analyzing Students' Strengths and Weaknesses
- Instructional Guide Based on Students' Performances

Therefore, it is very crucial for students to work on eMathTest with their teacher(s) to fully maximize the eMathTest benefits. Ask your teachers whether they have eMathTest teacher account!



Chapter VIII: Other Resources

This chapter introduces other resources for eMathTest service.

eMathTest Support Page

You can access to various resources at the eMathTest Support page (http://eMathTest.com/Support). For example, there are other types of user guides, the guides written in different languages, FAQ, or contract form.



eMathTest Facebook Page

Do you have Facebook account? Then, visit the eMathTest Facobook page at https://www.facebook.com/eMathTest. This Facebook page contains news, updates, events information, and you can interact with other eMathTest users, inventors and developers in this page.



Follow eMathTest at Twitter

Follow eMathTest at Twitter (https://twitter.com/eMathTest). This Twitter will instantly deliver news, tips, and other information of eMathTest service.





Chapter IX: References

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