

Version

3.0

SAWMILL SOFTWARE CORPORATION

Measure-Matic – English/Metric

Administrative Guide

MEASURE-MATIC - ENGLISH/METRIC

Administrative Guide

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Introduction

Program Overview

Measure-Matic is a Windows based software application that helps teach the concept of using measurement devices. Primarily an educational tool, the program's rulers can be customized to varying levels of complexity (i.e. sixteenth-inch, eighth-inch, quarter-inch, etc.), depending the age and skill of the user. The software includes the Standard English ruler with four levels, Metric ruler with three levels, Architectural Scale, 32nd inch and 64th inch rulers that are both single levels. Within the software, instructors can even locate a micrometer by navigating the menu option view.

Through its "Teacher Corner", Measure-Matic gives the educator direct control over individual student accounts. Individual settings and test reports are available for each student account.

Company Philosophy

Sawmill Software Corporation is a family-owned company founded in Cleveland, Ohio in 2000 for the express purpose of designing educational software. Hundreds of copies of its banner product, "Your Math Buddy" have been sold worldwide to households and educational institutions.

Sawmill Software's corporate philosophy is called "Partnership Design", which invites suggestions and comments from its users to refine the end use and design of its program. By actively soliciting the input of customers as design partners, Sawmill Software has proved that it can develop target products for specific uses and continuously improve upon those products.

Installation

System Requirements

Operating System

Microsoft Windows ® XP, Windows Vista, Windows 7

Hardware (CD-ROM Installation)

Intel® Pentium® processor (or equivalent)

32MB of RAM (64MB recommended)

50MB of available hard-disk space

4x CD ROM Drive

Keyboard

Mouse or Similar Optical Device Input

Hardware (Internet Download Installation)

Intel® Pentium® processor (or equivalent)

32MB of RAM (64MB recommended)

50MB of available hard-disk space

56 Kb/second Internet Connection of Better

Keyboard

Mouse or Similar Optical Device Input

Internet Download

Close all open programs, except the web browser and navigate to <http://www.sawmillsoftware.com> and select the “Download” link within the top navigation bar on the home page. Once on the download page, choose to either download a Fully Functional Trial Version or Non Trial Version. After the download is complete, double click the icon to begin installing the software.

Note: It is suggested that after installation, the downloaded program be moved from the desktop to a CD-ROM or in another location on the computer. This will allow re-installation of the program at a later date, if necessary. Also, this will reduce the confusion by having a program icon and the installation program on the desktop at the same time.

CD-ROM

Insert the program CD into the CD-ROM drive. If the setup screen does not appear within 60 seconds, click on the “Start” button, and click “Run”. Type D:\setup (where D is the CD-ROM drive), then click “OK”.

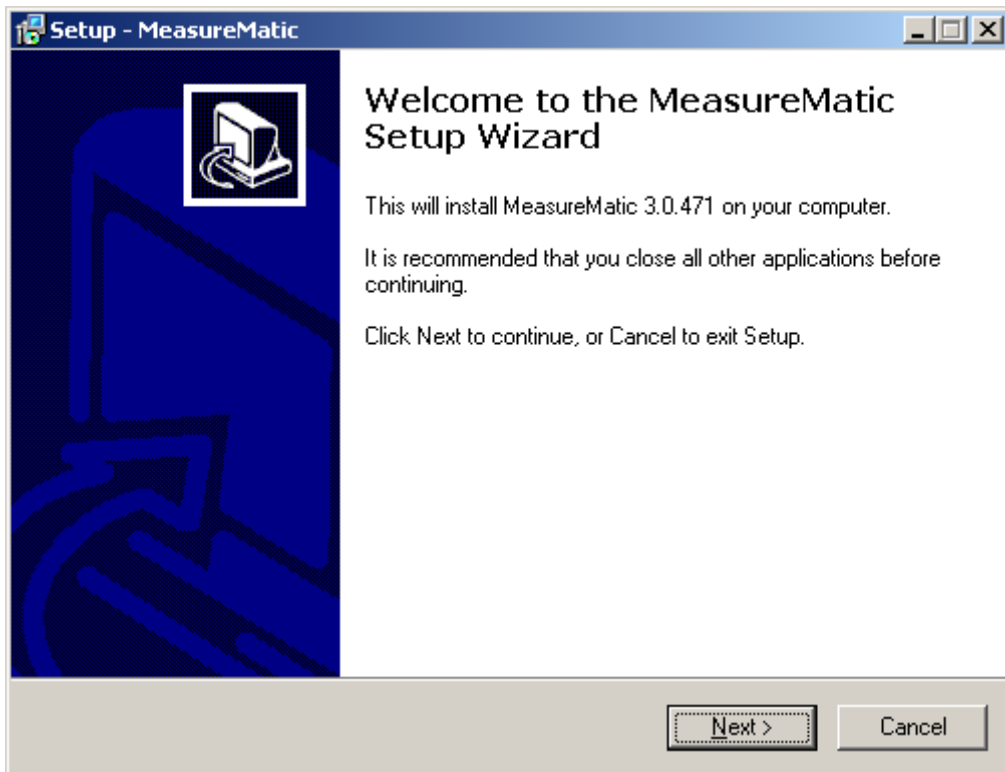


Figure 2.1

Click "Next" to install Measure-Matic on the computer.



Figure 2.2

Sawmill Software, is willing to license the software ("Measure-Matic") only upon acceptance of the terms of the license agreement prior to completing the product installation. Completion of product installation constitutes acceptance of the terms and conditions of the agreement. Sawmill Software Corporation is unwilling to license the software to individuals or corporations that do not agree with the terms of the license agreement. To accept the terms of this license agreement, click "I accept the agreement", and then click on "Next".

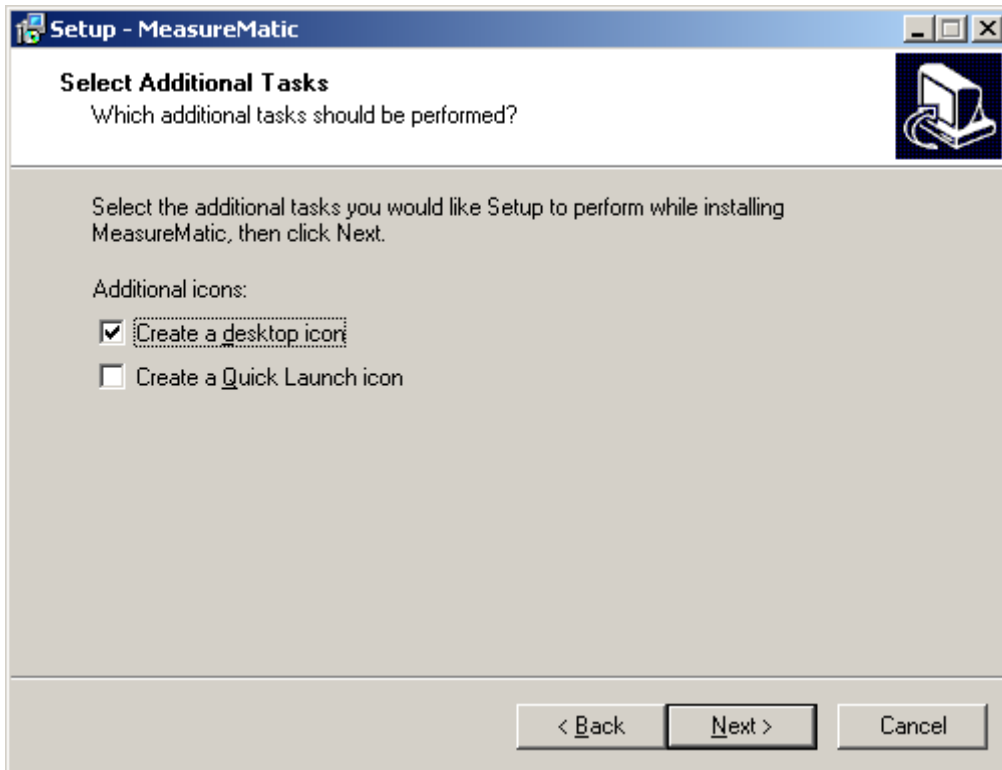


Figure 2.3

To have the program create a quick launch or desktop icon, click either of the two options, then click “Next” to proceed with the installation

Note: The program will automatically install a shortcut in the Start Menu in a folder labeled “Sawmill Software”.

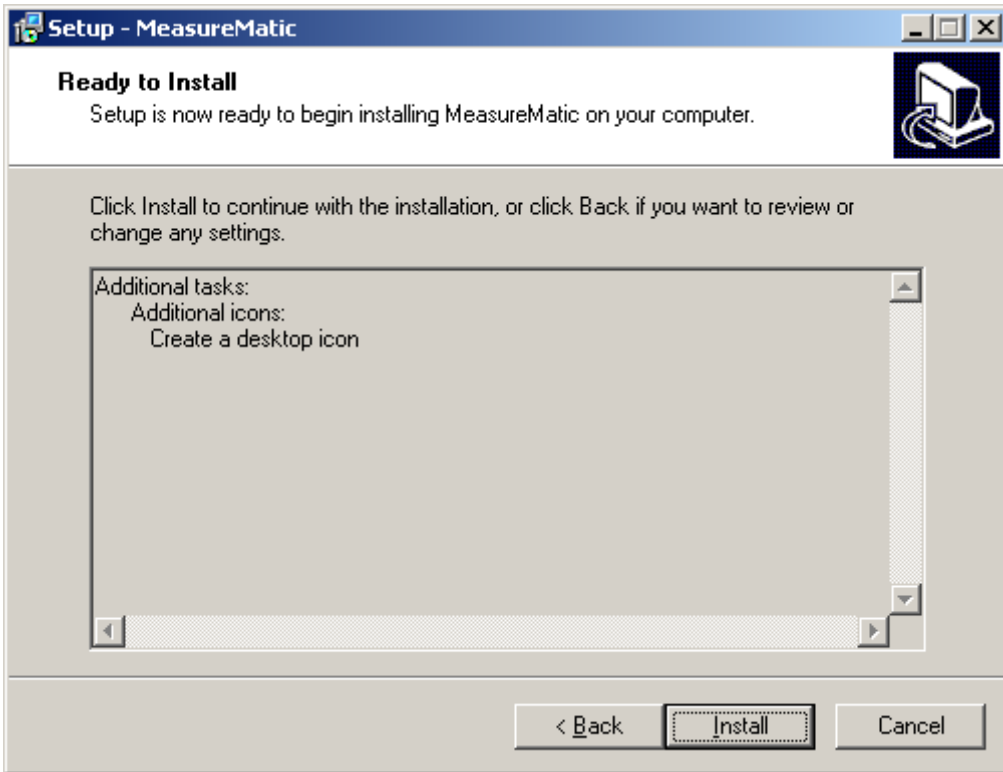


Figure 2.4

Click “Install” to continue program installation. The following screen (Figure 2.5) will show the progress of installation.

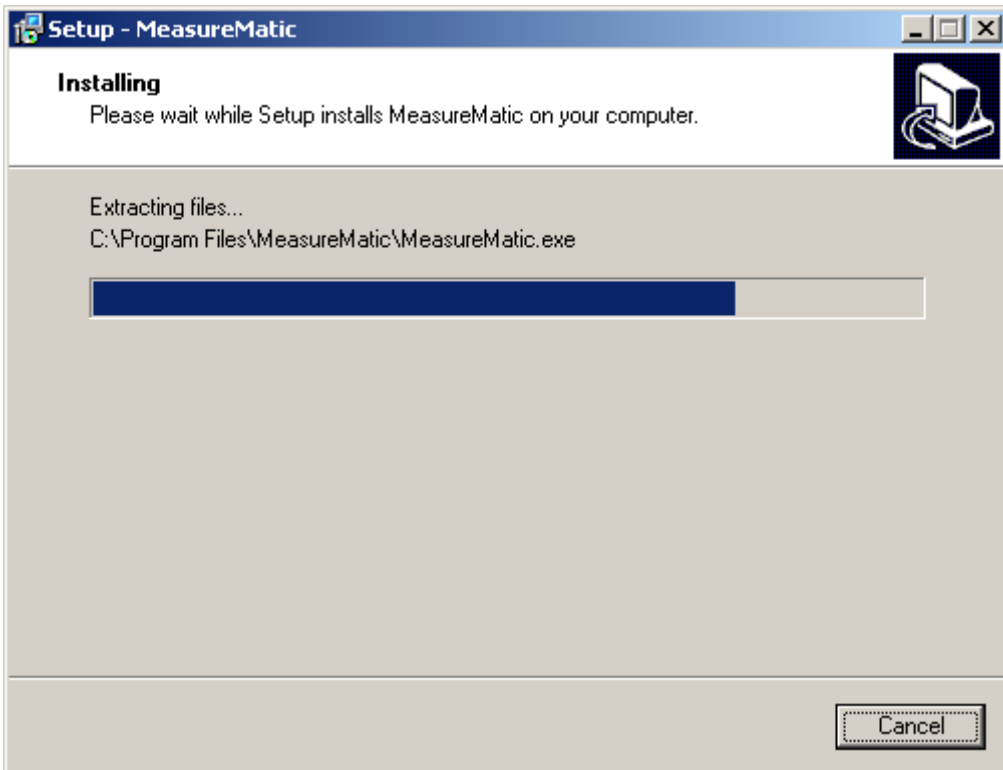


Figure 2.5

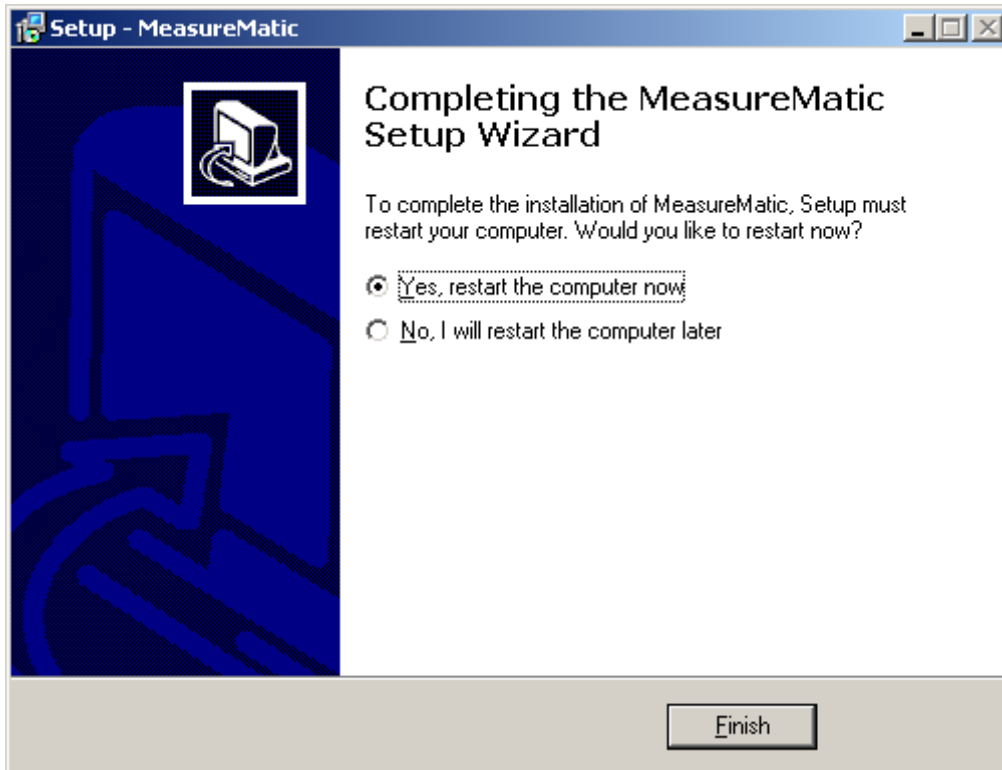


Figure 2.6

After installation has completed, the setup wizard may prompt to restart the computer. It is recommended at this point to select the option "Yes, restart the computer now" and click "Finish".

Note: This screen (Figure 2.6) may not appear on every version of Microsoft Windows, however, it does not affect the program's installation.

After the computer restarts, installation is complete and the program may be started by selecting Start | All Programs | Measure-Matic | Measure-Matic or double clicking the Measure-Matic icon on your desktop (if this option was selected in Figure 2.3).

The start menu option may differ depending on the version of Microsoft Windows.

Note: After installation, the program will need to be registered. Please follow the instructions in the "Registration" section of this guide on how to register the program.

Registration

The first time the software is started, the registration dialog will appear that will navigate you through the software registration process.

The single, five, and ten user licenses require each computer to be registered individually. The campus license has an activation key that will activate Measure-Matic on any computer it is loaded (recommended for schools).

After the software is purchased, a “Sales Id” number will be issued that will be sent to the e-mail address used when purchasing the software.

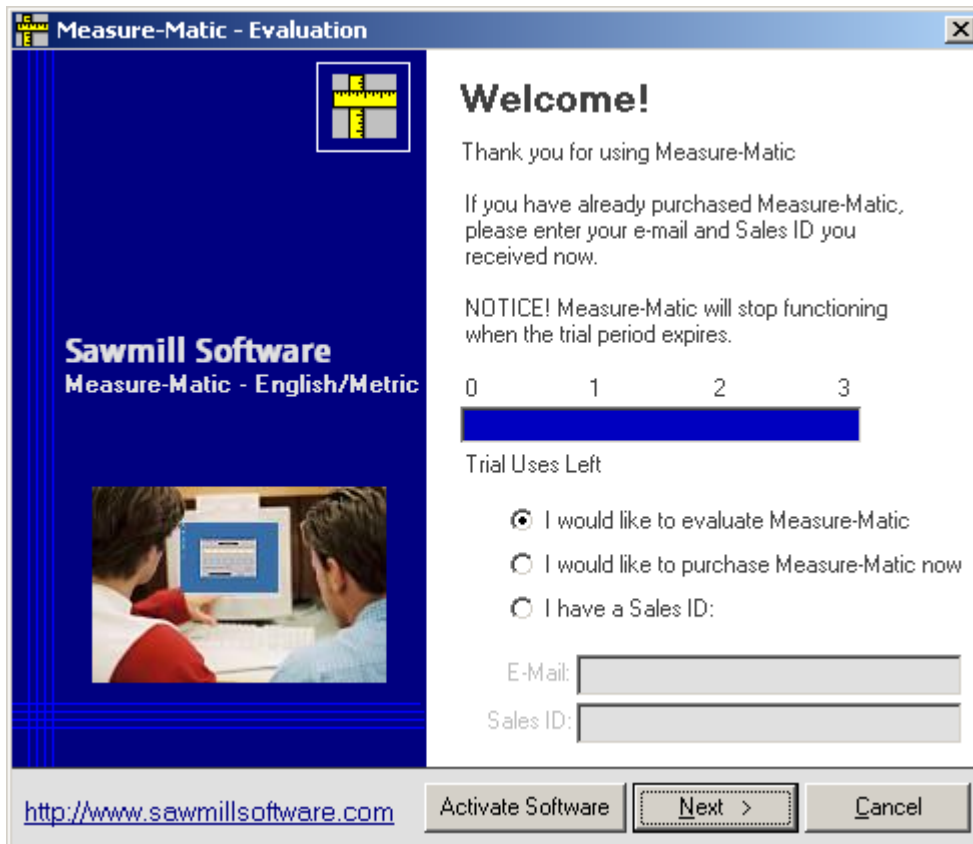


Figure 3.0

As shown in Figure 3.0, the serial number, key number, and ID Number are automatically generated by the program. Enter the first and last name of the individual to whom this software is licensed. To receive a registration number, select “Get Registration Number”. If a corporation licenses the software, enter the first and last names of the instructor using the software.

Note: The Key number and ID number can be negative numbers (starting with a minus sign). The negative sign is important and must be included when obtaining the registration number, if present.

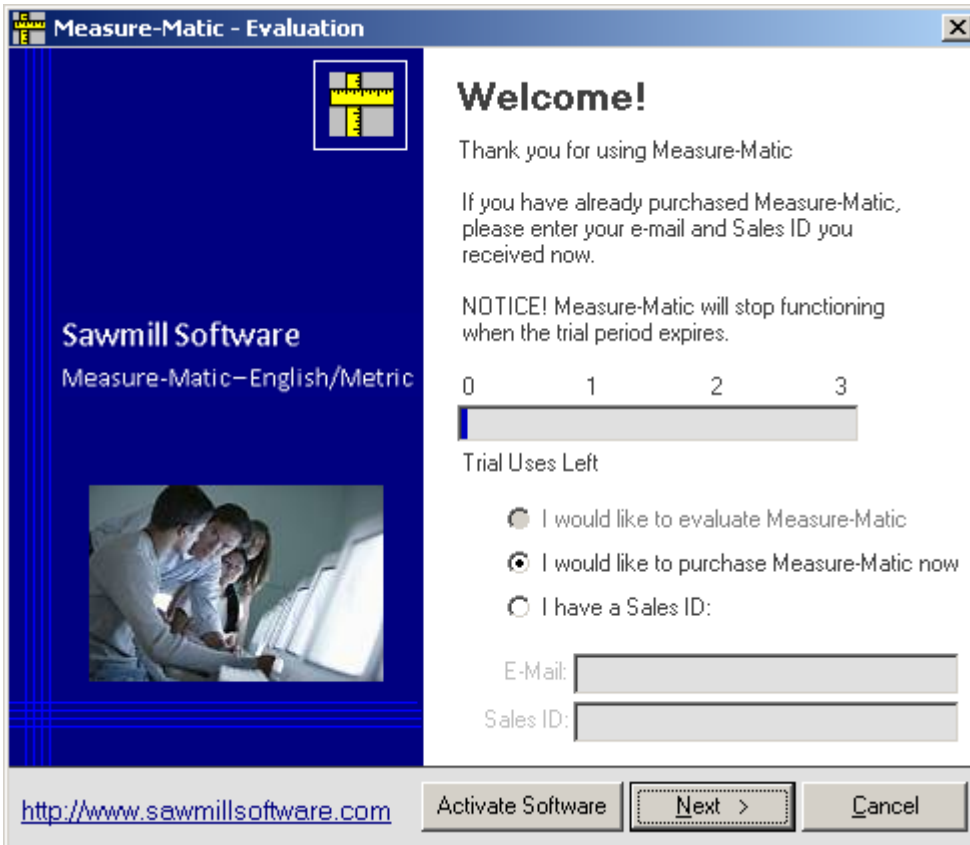


Figure 3.1

Two options can be utilized to obtain the registration number: (1) online registration or (2) register by phone using the toll free number. If the software has already been purchased (via online download or receipt of CD in mail), click the “Register Software with Sales ID if Already Purchased” option. If a trial version of the software was used, click “Purchase Software and Receive Sales ID to Register Software”. In either case, click “OK” to continue.

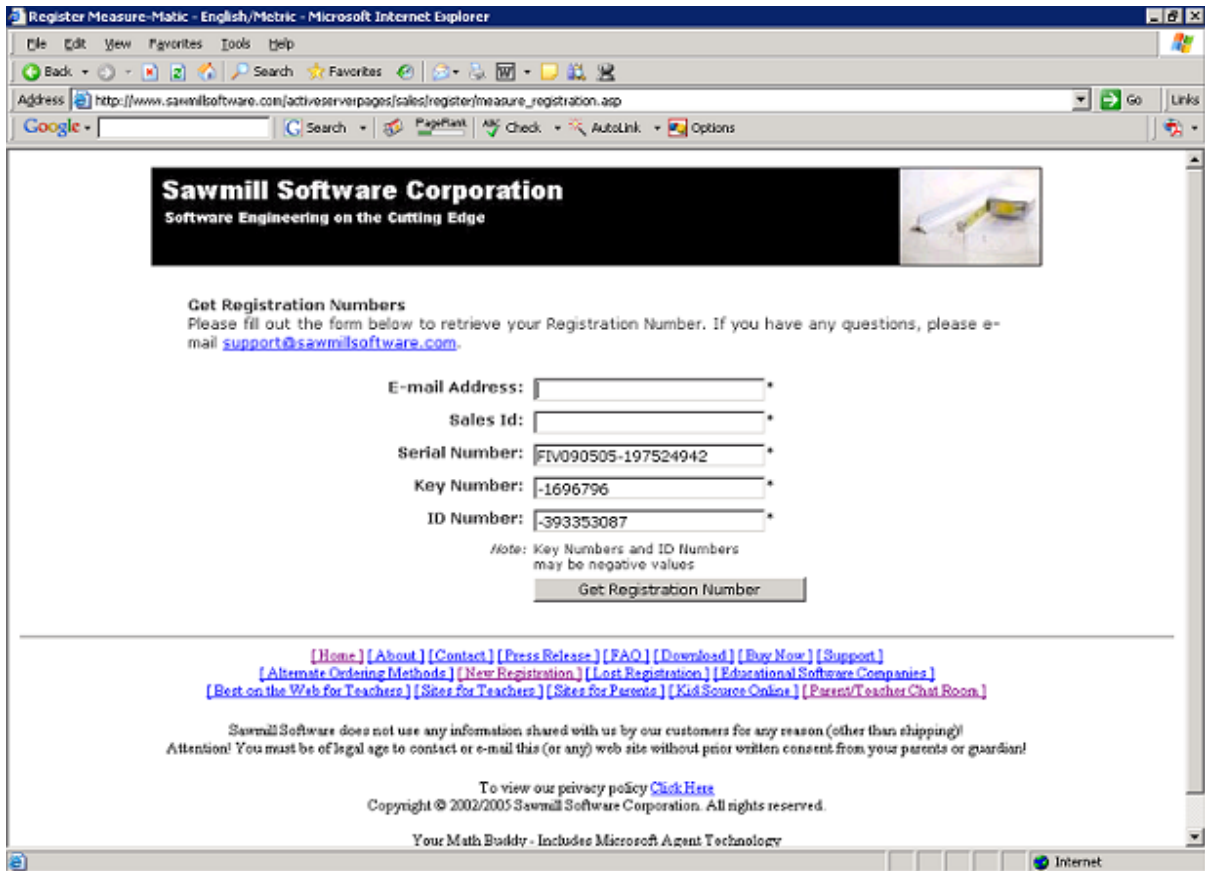
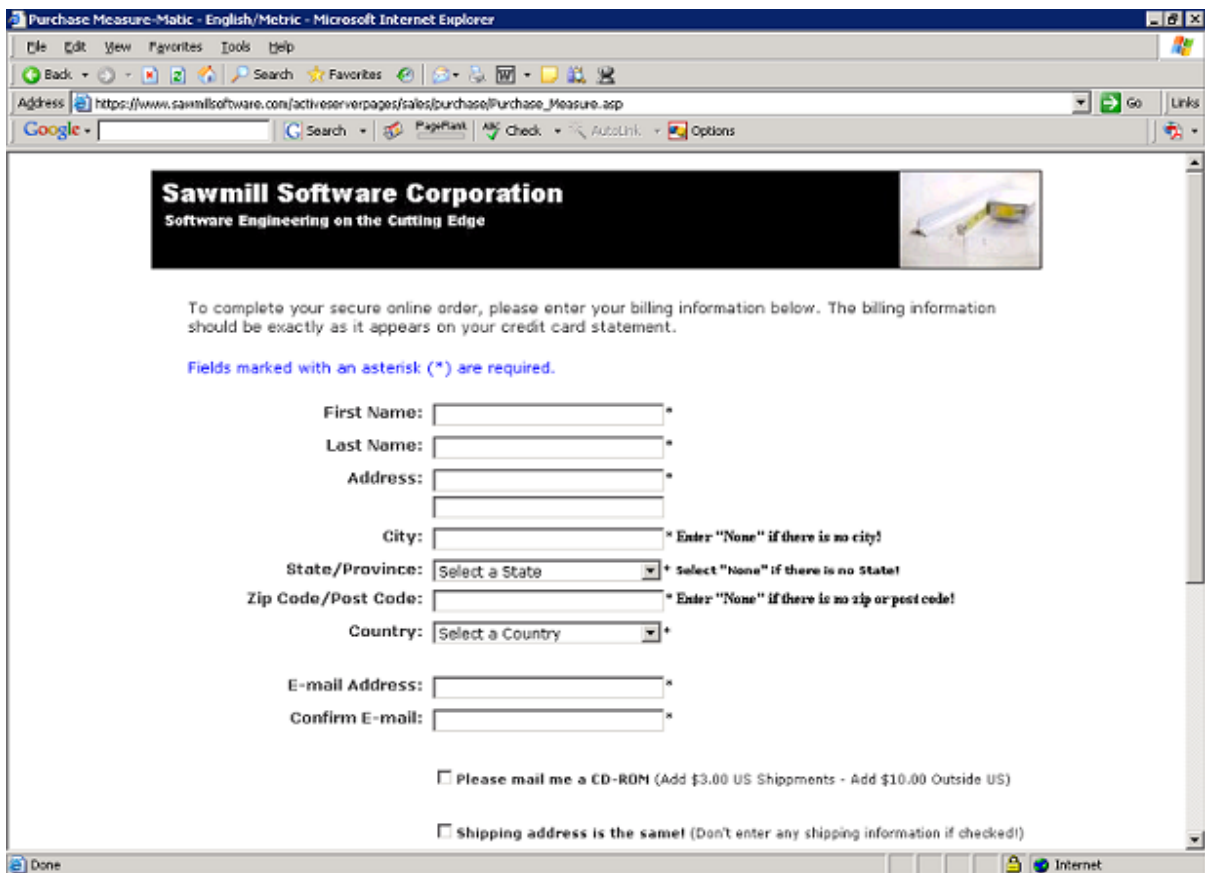


Figure 3.2.a

If the software has already been purchased and “online registration” was chosen, an internet explorer window will automatically open to an online registration page. As shown in Figure 3.2.a, the “Serial Number”, “Key Number”, and “ID Number” are automatically entered. Enter the Sales ID, which was included in the email receipt after purchase, and the email address used during product purchase to obtain the registration number. After entering the required information, click “Get Registration Number” to complete the online product registration.

The sales ID and email address text boxes are case sensitive; the information must be entered exactly as in the email receipt. For example, if the users email receipt was issued to ed@mail.com, an error will occur if the email address is entered as ED@MAIL.COM. Also, if the “Sales ID” in the email receipt is “AZ34”, entering “az32” will result in an error and the registration will not process.

Note: Be sure to check the junk e-mail folder or filter for the confirmation email from Sawmill Software.



Purchase Measure-Matic - English/Metric - Microsoft Internet Explorer

Address: https://www.sawmillsoftware.com/activexserverpages/sales/purchase/purchase_measure.asp

Sawmill Software Corporation
Software Engineering on the Cutting Edge

To complete your secure online order, please enter your billing information below. The billing information should be exactly as it appears on your credit card statement.

Fields marked with an asterisk (*) are required.

First Name: *

Last Name: *

Address: *

City: * Enter "None" if there is no city!

State/Province: * Select "None" if there is no State!

Zip Code/Post Code: * Enter "None" if there is no zip or post code!

Country: *

E-mail Address: *

Confirm E-mail: *

Please mail me a CD-ROM (Add \$3.00 US Shipments - Add \$10.00 Outside US)

Shipping address is the same! (Don't enter any shipping information if checked!)

Figure 3.2.b

If the option to purchase and register the program was chosen, an internet explorer window will automatically open to a secure online payment gateway. Enter the information of the person purchasing the product into all of the fields, exactly as it appears on the purchasing individual's credit card statement. If the City and/or Zip Code field are not applicable, enter "None" in these fields and continue.

Note: The E-mail address and Confirm E-mail fields must match exactly. Also, be sure to check the junk e-mail folder or filter for the confirmation email from Sawmill Software.

Note: Failure to complete the information exactly as it appears on the credit card statement will result in failure to purchase or register the program.

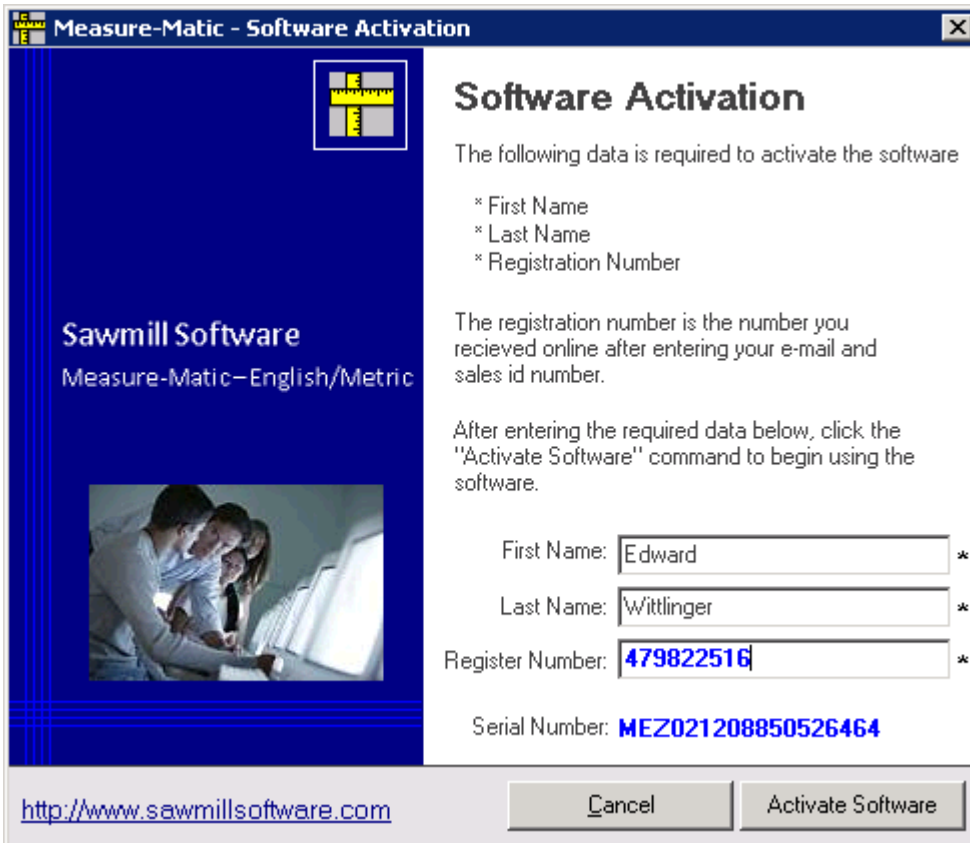


Figure 3.3

After receiving the confirmation email containing the registration number, enter it into the “Register Number” field. It can be copied directly from the confirmation page.

Note: The register number can be a negative number (starting with a minus sign). The negative sign is important and must be included to register the software, if present.



Figure 3.4.a

If an invalid Registration Number is entered, a prompt screen will appear regarding the error. Click “OK” to return to the registration screen (Figure 3.3).

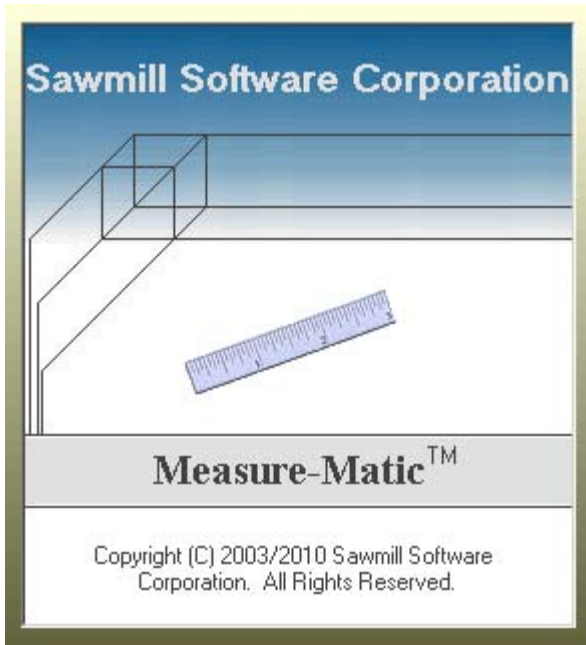


Figure 3.4.b

If the Registration Number was entered successfully, the software welcome screen will appear.

Note: The Registration Number, Serial Number, Key Number, ID Number, and Sales ID are not required to be entered anymore to use this program, however, these numbers should be saved in case the program needs to be re-installed. The last page of this guide has areas to record these important numbers.

Description

Program Overview

The ability to make measurements quickly and accurately is a skill that is beneficial to students and professionals in a wide variety of areas. Individuals in fields as diverse as architecture, construction trades, landscaping, automobile repair, and engineering need to be able to correctly read and record measurements. The instruments used to obtain these measurements require practice and skill development to master.

Measure-Matic is a software program developed to assist in practicing and developing the skill of measuring. It allows students to learn how to read the different units on an English ruler (including sixteenth, eighth, quarter, half, and whole inches), ten Architectural scale rulers (one-eighth inch, one-quarter inch, one-half inch, one inch, three-eighth inch, three-quarter inch, one and one-half inch, three inch, three thirty-second inch, and three-sixteenths inch scale), and a Metric ruler (including millimeter, centimeter, half centimeter, decimeter, and meter), as well as a inch micrometer (thousandths of an inch).

The “Teacher Corner” allows an instructor to create, delete, and manage different student accounts, and to update the program. To learn more about the “Teacher Corner”, refer to the “Teacher Corner” section of this manual.

Note: The default account is the “Administrator” account. It is recommended that the Instructor create student accounts prior to student use of the program through the “Teacher Corner”. Please refer to the “Teacher Corner” section of this manual for more information about creating student accounts and the “Administrator” account.

Menus

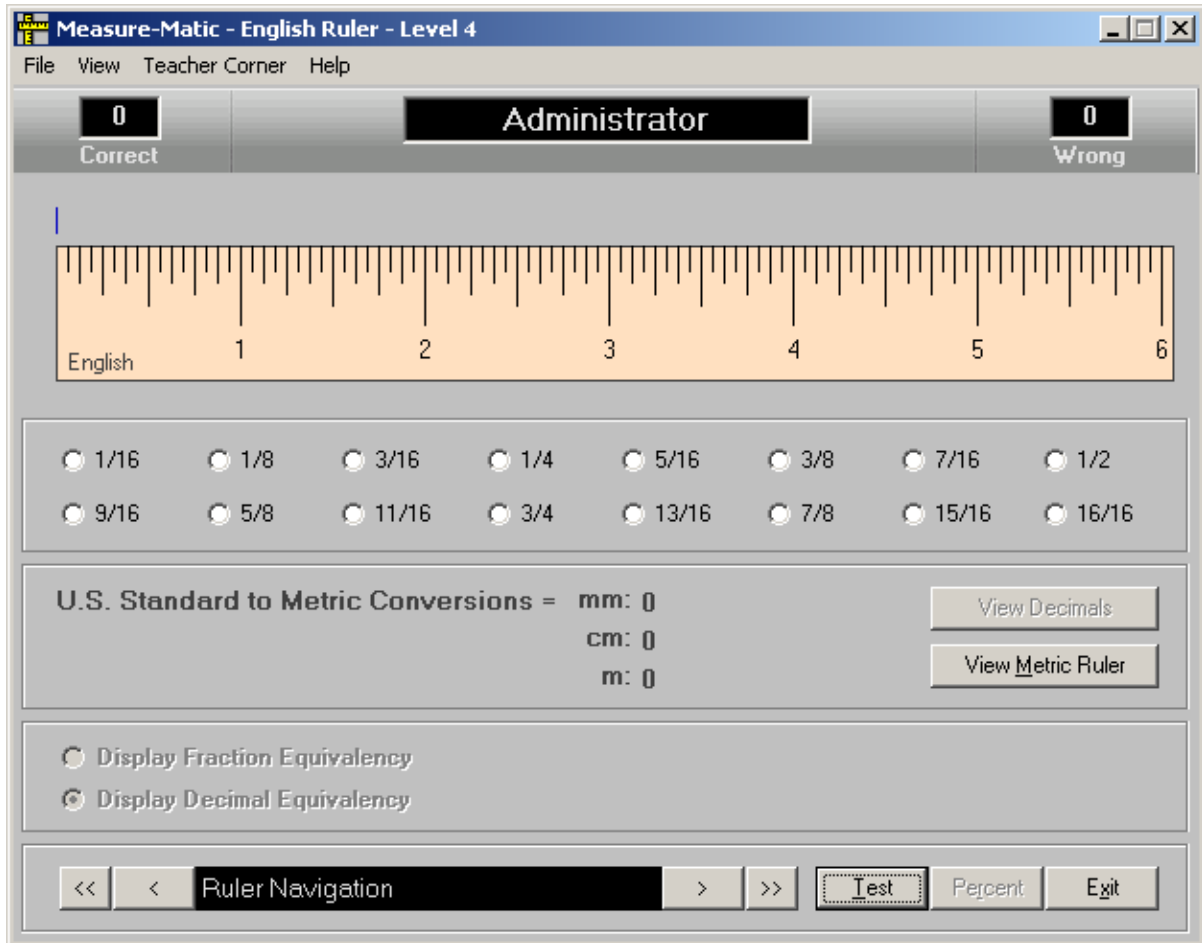


Figure 4.0

As shown in Figure 4.0, four menu options are displayed at the top of the screen: "File", "View", "Teacher Corner", and "About". Clicking on any of these menu options displays sub-menus that allow the user to access different areas of the program.

File

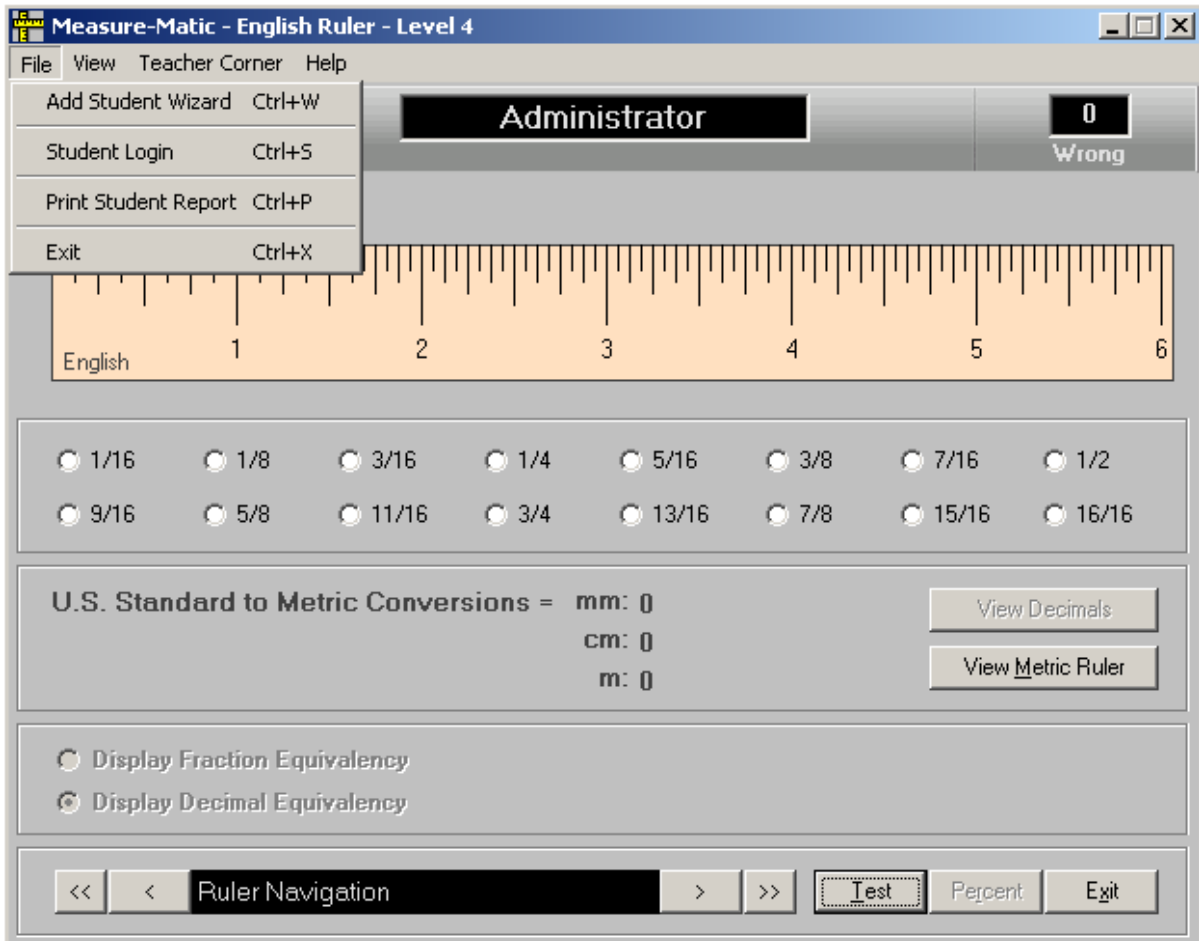


Figure 4.1

As shown in Figure 4.1, the File menu contains two sub-menus: “Student Login” and “Exit”. Clicking on “Exit” exits the program. Clicking on “Student Login” allows a student to login to a specific account; a login prompt window will appear requesting the student’s login (Figure 4.2). Type in the “Student Login” and click “OK” to continue.

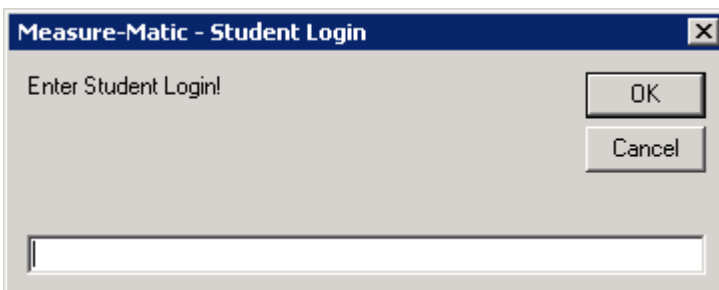


Figure 4.2

Note: Until student accounts are created, only the default “Administrator” account exists. To create student accounts, please refer to the “Teacher Corner” section of this manual.

View

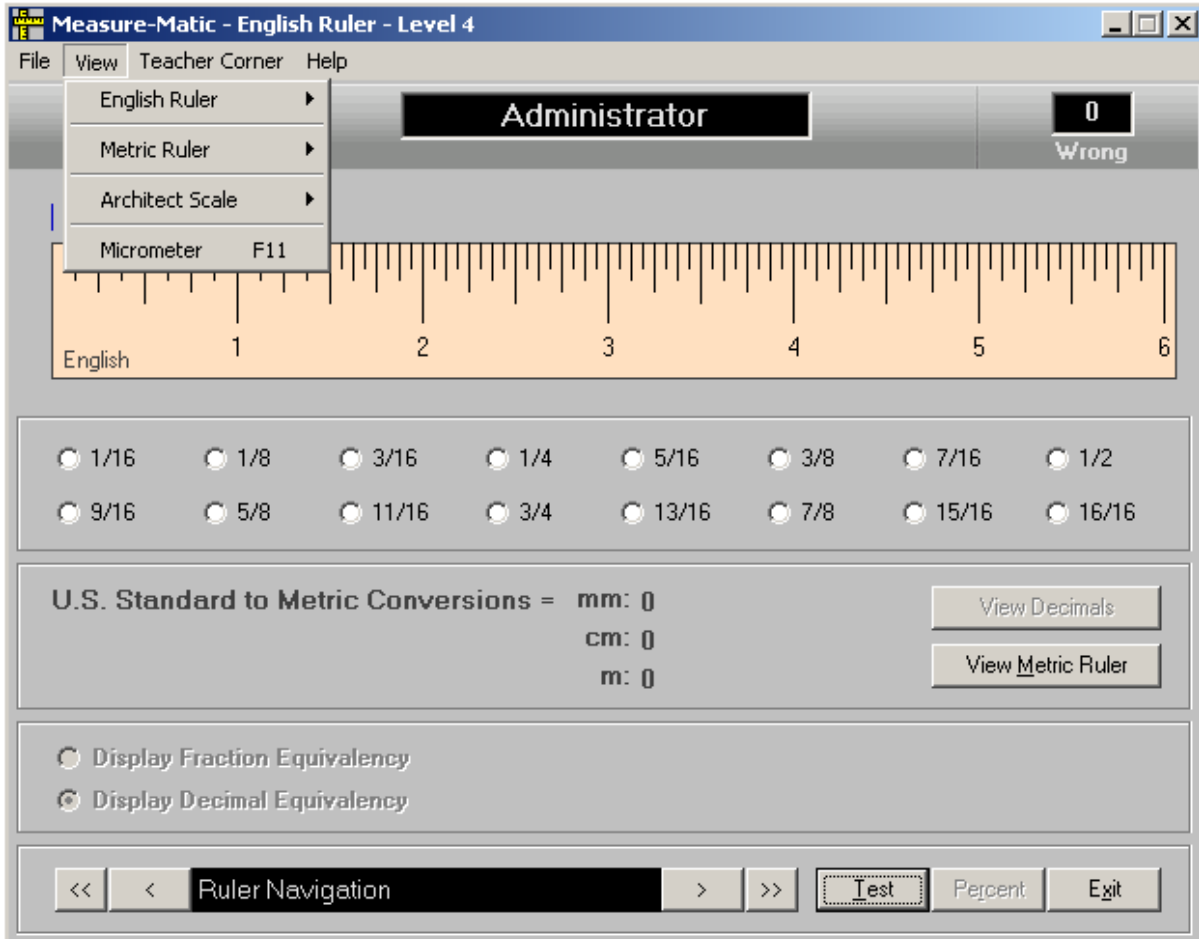


Figure 4.3

The view menu allows the user to change the current view to one of four levels of the English Ruler, ten different Architectural scales, one of three levels of the Metric Ruler, the 32nd inch ruler, the 64th inch ruler, or the micrometer.

The levels of the English ruler are as follows:

Level:	Unit:
1	Inch & Half-inch
2	Inch, Half-inch, & Quarter-inch
3	Inch, Half-inch, Quarter-inch, & Eighth-inch
4	Inch, Half-inch, Quarter-inch, Eighth-inch & Sixteenth-inch

The levels of the Metric ruler are as follows:

Level:	Unit:
1	Centimeter
2	Centimeter & Half-Centimeter (or 5 Millimeter)
3	Millimeter, Centimeter, Decimeter, & Meter

The different Architectural Scale Rulers are as follows:

Scale:	Measurement:
$\frac{1}{8}$ "	One-eighth inch equals one foot
$\frac{1}{4}$ "	One-quarter inch equals one foot
$\frac{1}{2}$ "	One-half inch equal one foot
1"	One inch equals one foot
$\frac{3}{8}$ "	Three-eighth inch equals one foot
$\frac{3}{4}$ "	Three-quarter inch equal one foot
1 $\frac{1}{2}$ "	One and one-half inches equal one foot
3"	Three inches equal one foot
$\frac{3}{32}$ "	Three thirty-second inch equals one foot
$\frac{3}{16}$ "	Three-sixteenths inch equals one foot

No additional levels are available for the 32nd and 64th inch rulers or the micrometer.

Each level can also be accessed by pressing one of the function keys:

Key:	Ruler & Level:
F1	English Level 1 (Inch through Half-Inch)
F2	English Level 2 (Inch through Quarter-Inch)
F3	English Level 3 (Inch through Eighth-Inch)
F4	English Level 4 (Inch through Sixteenth-Inch)
F5	Metric Level 1 (Centimeter)
F6	Metric Level 2 (Centimeter through Half-Centimeter)
F7	Metric Level 3 (Millimeter through Meter)
F8	32 nd inch ruler (Inch through 32 nd of an Inch)
F9	64 th inch ruler (Inch through 64 th of an Inch)
F10	Micrometer (Thousandths of a Millimeter)
CTRL+A	Architect Scale: Eighth Inch
CTRL+B	Architect Scale: Quarter Inch
CTRL+C	Architect Scale: Half Inch
CTRL+D	Architect Scale: Inch
CTRL+E	Architect Scale: Three-eighth Inch
CTRL+F	Architect Scale: Three-quarter Inch
CTRL+G	Architect Scale: One and One-half Inch
CTRL+H	Architect Scale: Three Inch
CTRL+I	Architect Scale: Three thirty-second Inch
CTRL+J	Architect Scale: Three-sixteenth Inch

Note: In test mode, pressing one of the function keys or otherwise switching rulers or levels causes the test to end and automatically switches the ruler.

Teacher Corner

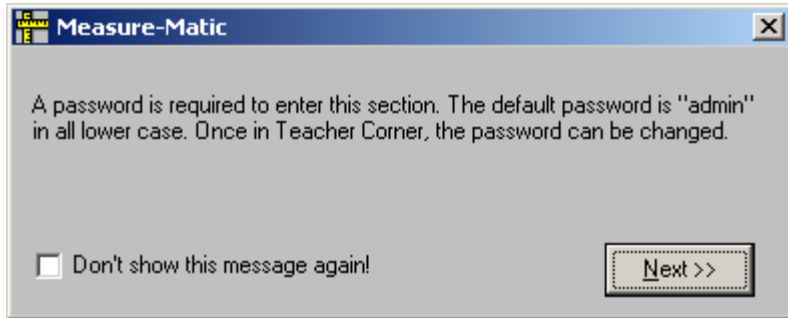


Figure 4.4

The “Teacher Corner” allows the instructor to create customized settings for individual student accounts. This powerful tool is accessed only by the Teacher Corner menu and is protected by a password. As shown in Figure 4.4, clicking on the “Teacher Corner” menu displays a prompt screen explaining the default password. To turn off this automatic display function, click the “Don’t show this message again!” check box, followed by the “Next” button. Only clicking the “Next” button causes the program to automatically display this message each time the “Teacher Corner” menu is clicked.

Note: It is recommended that the instructor click the “Don’t show this message again!” check box so that students are not able to gain access to account settings in “Teacher Corner”.

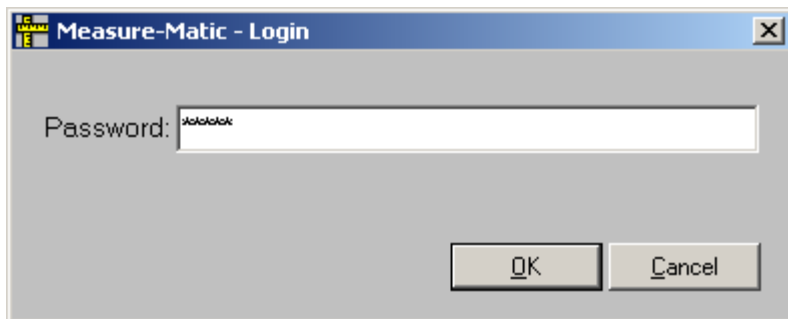
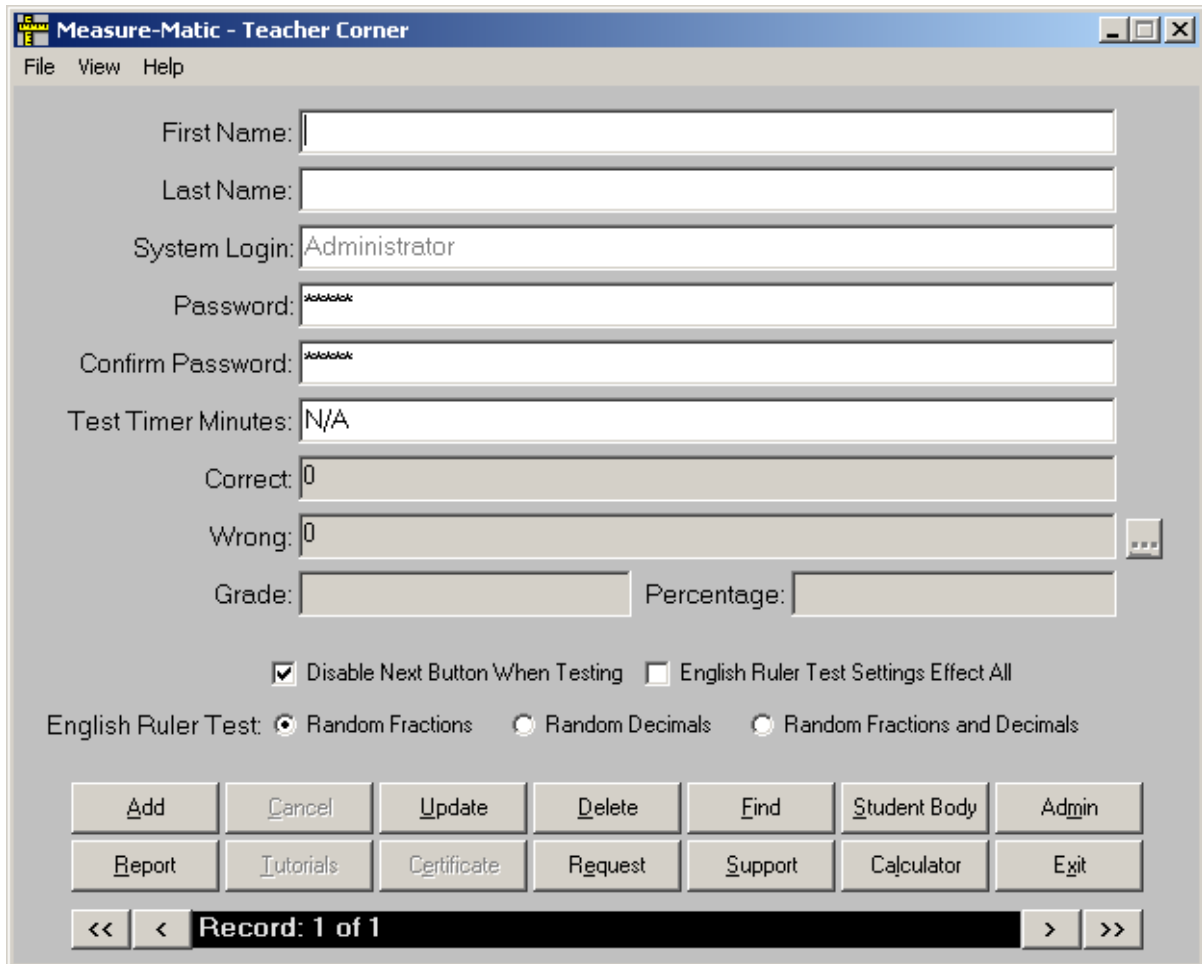


Figure 4.5

Enter the password (the default password is “admin” with no quotes and all lower case), then click “OK”. If the incorrect password is entered, a prompt will appear requesting the password again.

Administrator Settings



The screenshot shows the "Measure-Matic - Teacher Corner" window. It features a menu bar with "File", "View", and "Help". Below the menu bar are several input fields: "First Name:", "Last Name:", "System Login:" (containing "Administrator"), "Password:" (masked with asterisks), "Confirm Password:" (masked with asterisks), "Test Timer Minutes:" (containing "N/A"), "Correct:" (containing "0"), "Wrong:" (containing "0"), "Grade:" (empty), and "Percentage:" (empty). There are two checkboxes: "Disable Next Button When Testing" (checked) and "English Ruler Test Settings Effect All" (unchecked). Below these are three radio buttons for "English Ruler Test": "Random Fractions" (selected), "Random Decimals", and "Random Fractions and Decimals". At the bottom, there are two rows of buttons: the first row contains "Add", "Cancel", "Update", "Delete", "Find", "Student Body", and "Admin"; the second row contains "Report", "Tutorials", "Certificate", "Request", "Support", "Calculator", and "Exit". At the very bottom, there are navigation buttons: "<<", "<", "Record: 1 of 1", ">", and ">>".

Figure 4.6

Figure 4.6 shows the “Teacher Corner”. The default account is always the “Administrator” account; it cannot be deleted as Measure-Matic requires an administrator account. The instructor should enter their first name and last name into the appropriate fields and click “Update” to save this information (see Figure 4.6). These fields may have been already entered during installation.

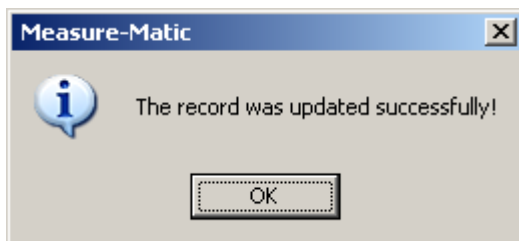
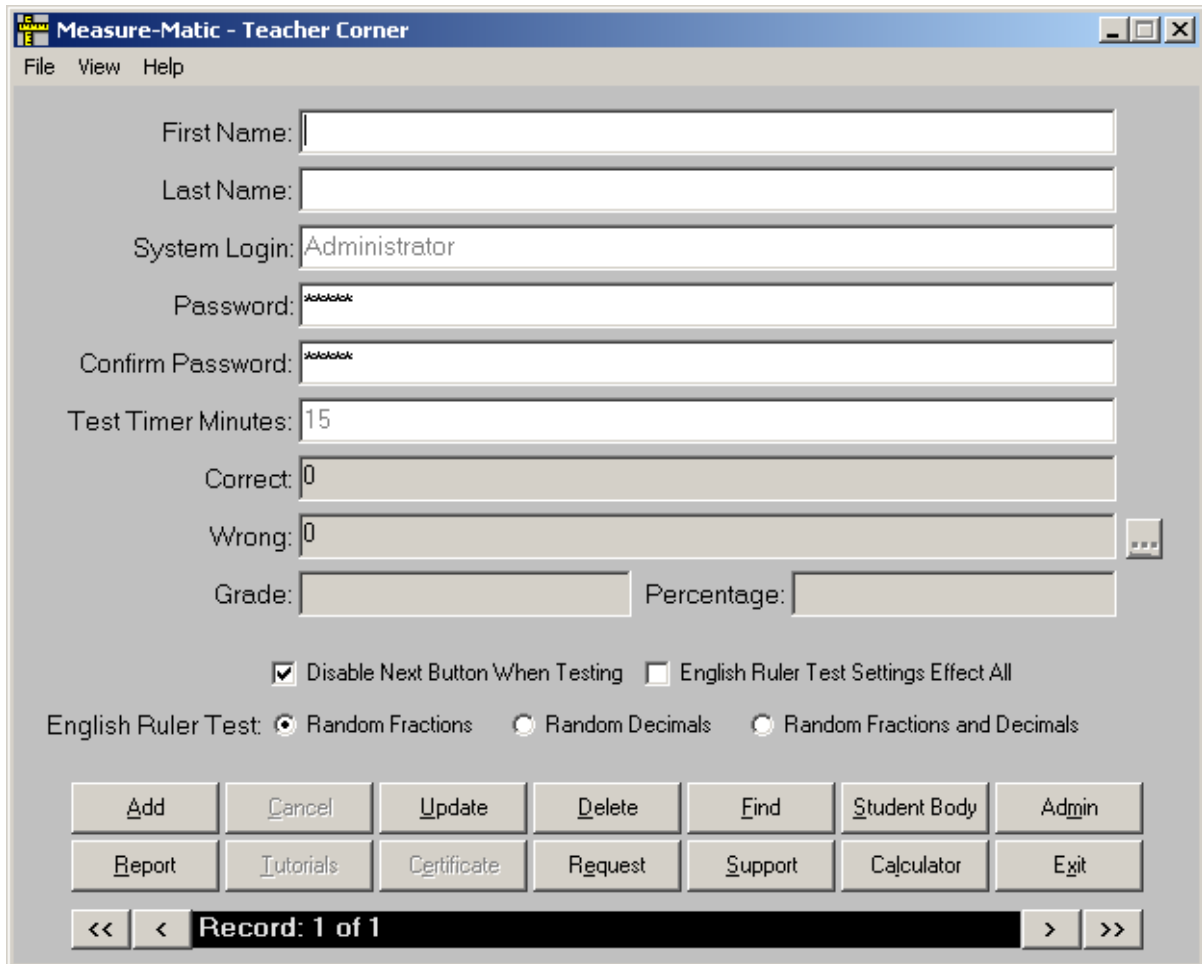


Figure 4.7

A confirmation box (Figure 4.7) will appear stating that the changes have been successfully implemented; click “OK” to continue.

Changing Password



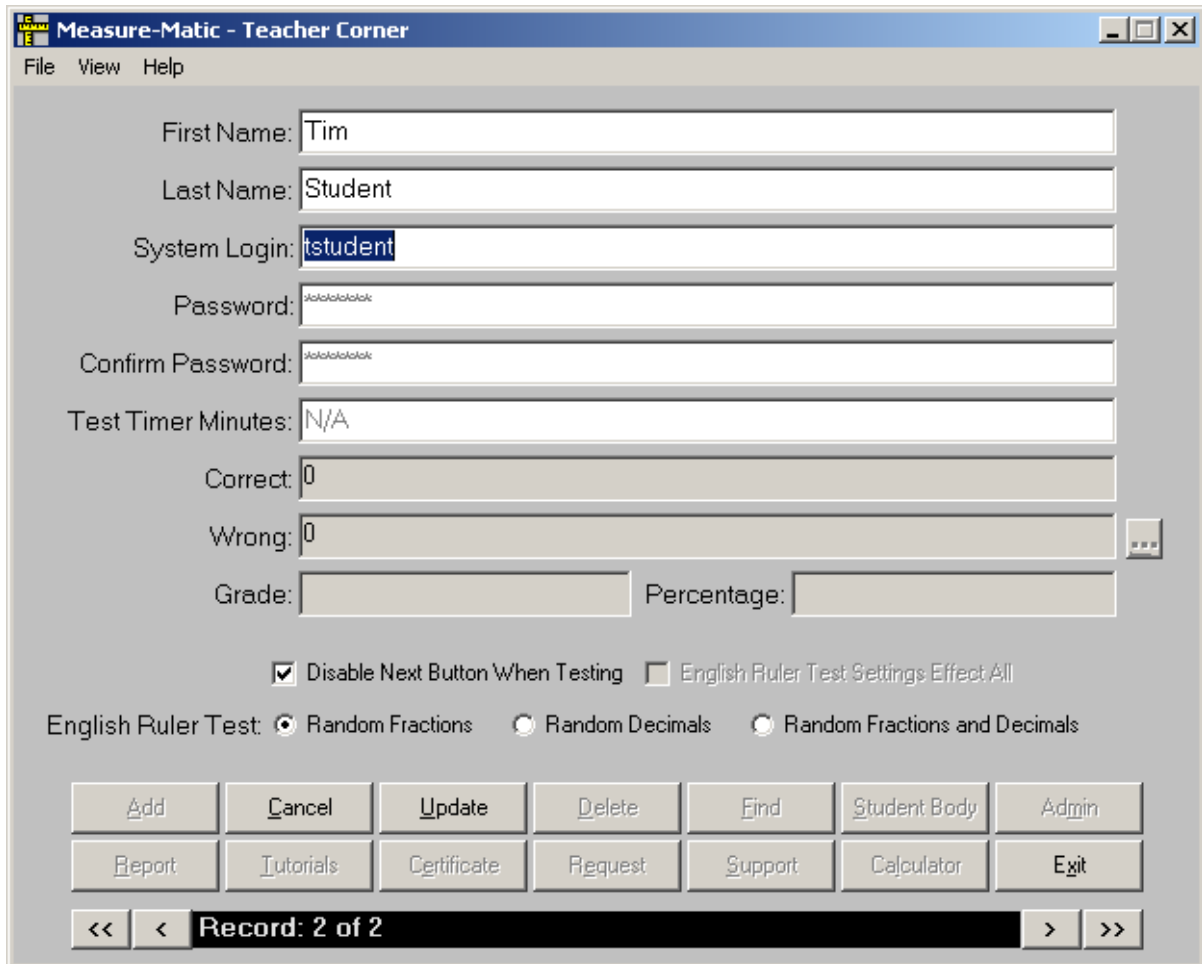
The screenshot shows the 'Measure-Matic - Teacher Corner' application window. The interface includes a menu bar with 'File', 'View', and 'Help'. Below the menu bar are several input fields: 'First Name:', 'Last Name:', 'System Login:' (containing 'Administrator'), 'Password:', 'Confirm Password:', 'Test Timer Minutes:' (containing '15'), 'Correct:' (containing '0'), 'Wrong:' (containing '0'), 'Grade:', and 'Percentage:'. There are two checkboxes: 'Disable Next Button When Testing' (checked) and 'English Ruler Test Settings Effect All' (unchecked). Below these are three radio buttons for 'English Ruler Test': 'Random Fractions' (selected), 'Random Decimals', and 'Random Fractions and Decimals'. At the bottom, there is a grid of buttons: 'Add', 'Cancel', 'Update', 'Delete', 'Find', 'Student Body', 'Admin', 'Report', 'Tutorials', 'Certificate', 'Request', 'Support', 'Calculator', and 'Exit'. A status bar at the very bottom shows '<< < Record: 1 of 1 > >>'.

Figure 4.8

To change the password for the administrator account, type a new password into the “Password” field and re-type it exactly into the “Confirm Password” field. Click “Update” to save this information. A confirmation box will appear stating that the changes have been put into effect; click “OK” to continue (Figure 4.8).

Note: It is strongly recommended that the administrator change the default password. The new password can be written on the last page of this manual, for future reference.

Adding Accounts

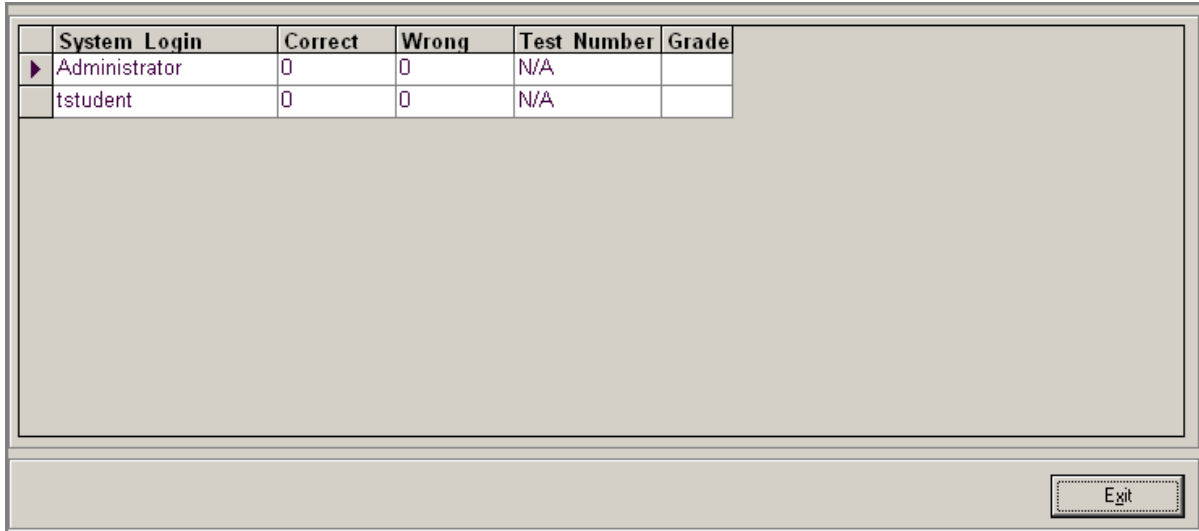


The screenshot shows the 'Measure-Matic - Teacher Corner' application window. The interface includes a menu bar with 'File', 'View', and 'Help'. Below the menu bar are several input fields: 'First Name' (Tim), 'Last Name' (Student), 'System Login' (tstudent), 'Password' (masked with asterisks), 'Confirm Password' (masked with asterisks), 'Test Timer Minutes' (N/A), 'Correct' (0), 'Wrong' (0), 'Grade' (empty), and 'Percentage' (empty). There are two checkboxes: 'Disable Next Button When Testing' (checked) and 'English Ruler Test Settings Effect All' (unchecked). Below these are three radio buttons for 'English Ruler Test': 'Random Fractions' (selected), 'Random Decimals', and 'Random Fractions and Decimals'. At the bottom, there is a grid of buttons: 'Add', 'Cancel', 'Update', 'Delete', 'Find', 'Student Body', 'Admin', 'Report', 'Tutorials', 'Certificate', 'Request', 'Support', 'Calculator', and 'Exit'. A status bar at the very bottom shows '<< < Record: 2 of 2 > >>'.

Figure 4.9

To add a student account, click “Add” at the bottom of the screen. A new, blank record will appear. Enter the student’s first and last name. The program will automatically create a system login with the student’s first initial and last name after pressing the “Tab” button. This default login can be changed by editing the default information in the “System Login” field. Click “Update” to save the information. A confirmation box (Figure 4.9) will appear stating that the changes have been successfully implemented; click “OK” to continue. Click “Cancel” to discard changes made since the last update.

Finding Accounts

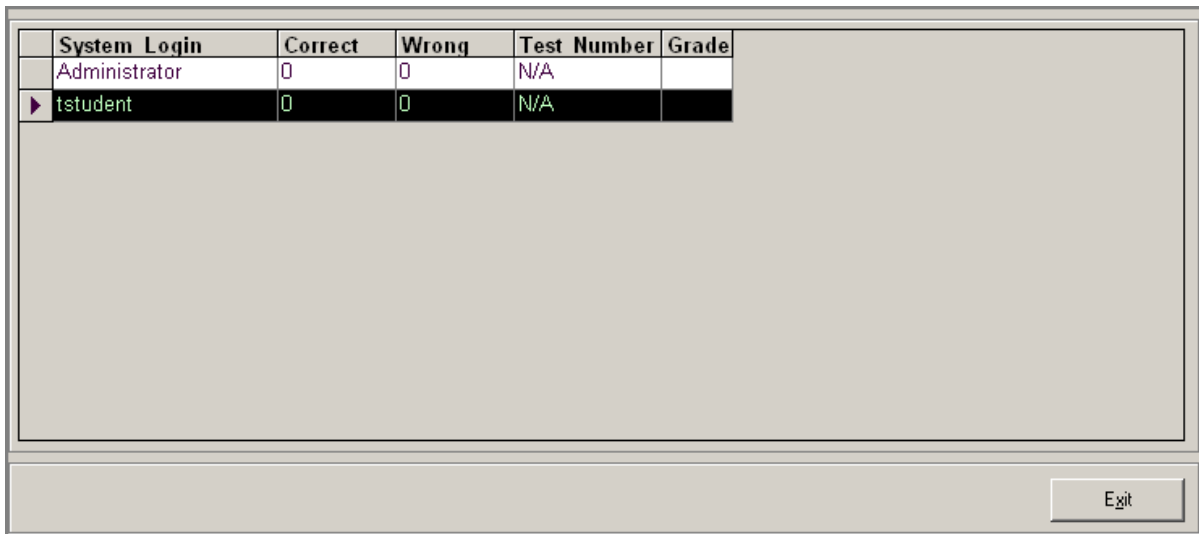


	System Login	Correct	Wrong	Test Number	Grade
▶	Administrator	0	0	N/A	
	tstudent	0	0	N/A	

Figure 4.10

To show all student accounts, (so that an individual accounts settings may be modified), click “Student Body”. A table of all the students will appear in a new window (Figure 4.10). Select a specific student by clicking on the gray box immediately to the left of the student’s login, highlighting the entire field (Figure 4.11).

Note: Only accounts contained on the computer the program is installed will be listed, unless the program’s networking capability is utilized. Refer to the “Networking Measure-Matic” section of this manual.



	System Login	Correct	Wrong	Test Number	Grade
	Administrator	0	0	N/A	
▶	tstudent	0	0	N/A	

Figure 4.11

Click “Exit” to return the selected student’s account. This will make the selected student’s account active for modification or review.

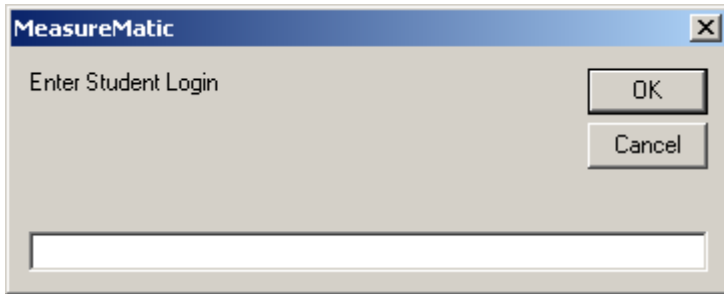


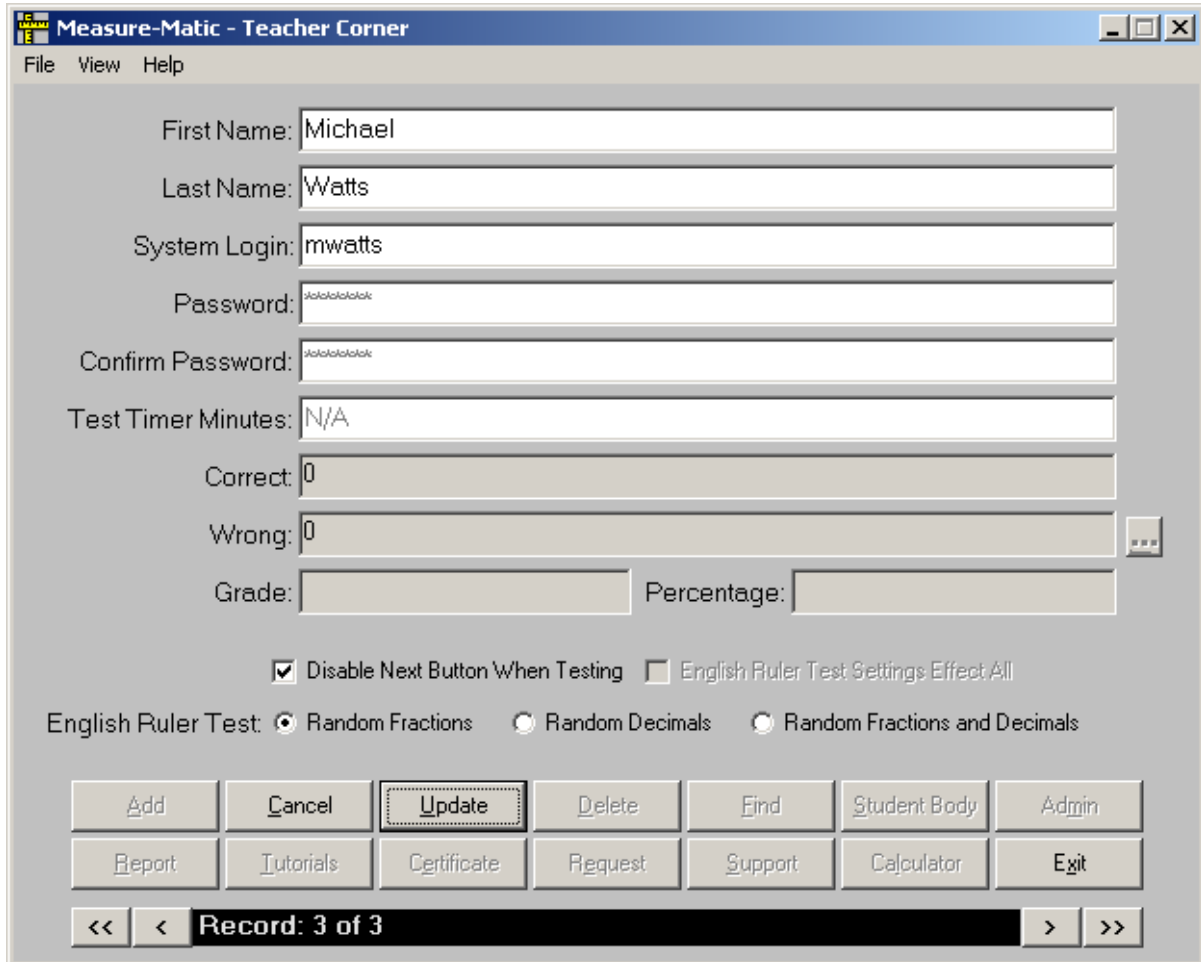
Figure 4.12

To locate a specific student account, click “Find”. A dialog box will appear asking for the student’s login ID (Figure 4.12). The default system ID would be the student’s first initial and last name.

Make not that using the “Student List” to find students is point and click verse typing the student’s name. Either way they will find the student, but mention that finding a student account is a lot quicker by accessing “Student List” and selecting the row.

Tracking Progress

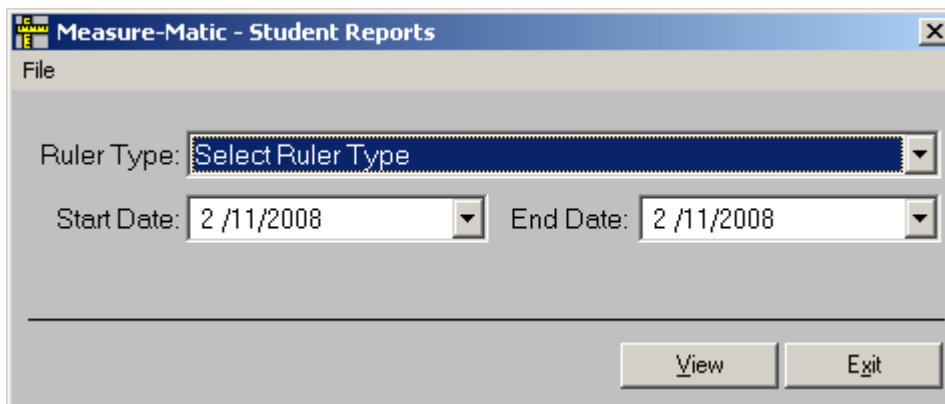
To track a student's progress on the measuring devices and test results, find the student account to review using the instructions contained within the "Finding Accounts" section of this manual.



The screenshot shows the "Measure-Matic - Teacher Corner" window. It features a menu bar with "File", "View", and "Help". Below the menu bar are several input fields: "First Name" (Michael), "Last Name" (Watts), "System Login" (mwatts), "Password" (masked with asterisks), "Confirm Password" (masked with asterisks), "Test Timer Minutes" (N/A), "Correct" (0), "Wrong" (0), "Grade" (empty), and "Percentage" (empty). There are two checkboxes: "Disable Next Button When Testing" (checked) and "English Ruler Test Settings Effect All" (unchecked). Below these are three radio buttons for "English Ruler Test": "Random Fractions" (selected), "Random Decimals", and "Random Fractions and Decimals". At the bottom, there is a grid of buttons: "Add", "Cancel", "Update" (highlighted with a dashed border), "Delete", "Find", "Student Body", "Admin", "Report", "Tutorials", "Certificate", "Request", "Support", "Calculator", and "Exit". A status bar at the bottom shows navigation arrows and the text "Record: 3 of 3".

Figure 4.13

After selecting the appropriate student, click the "Report" command (Figure 4.13). This will open the ruler prompt box (Figure 4.14).



The screenshot shows the "Measure-Matic - Student Reports" window. It features a menu bar with "File". Below the menu bar are two dropdown menus: "Ruler Type" (Set to "Select Ruler Type") and "Start Date" (Set to "2 /11/2008"). Next to "Start Date" is an "End Date" dropdown menu (Set to "2 /11/2008"). At the bottom, there are two buttons: "View" and "Exit".

Figure 4.14

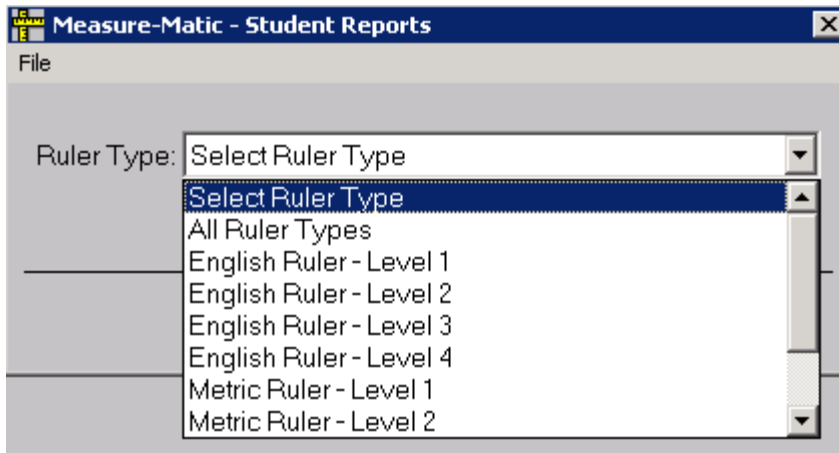


Figure 4.15

Select a measuring device and level to view a student’s progress on the tests for that level (Figure 4.15). For a description of the different ruler levels, refer to the Description | Menu Options | View section of this manual. Click “View” to view the student’s test results for the ruler and level selected or click “Print” to print the student’s test results for the ruler and level selected (Figure 4.16).

Correct	Wrong	Ruler	Date
13/16		English Ruler - Level4	2/11/2008
3/16		English Ruler - Level4	2/11/2008
7/8		English Ruler - Level4	2/11/2008
1/4		English Ruler - Level4	2/11/2008
5/16		English Ruler - Level4	2/11/2008
4/7/16		English Ruler - Level4	2/11/2008
2/1/16		English Ruler - Level4	2/11/2008
3/13/16		English Ruler - Level4	2/11/2008
2/1/2		English Ruler - Level4	2/11/2008
2/3/8		English Ruler - Level4	2/11/2008
2/1/16		English Ruler - Level4	2/11/2008
	3/11/16	English Ruler - Level4	2/11/2008
3/11/16		English Ruler - Level4	2/11/2008

Figure 4.16

Deleting Accounts

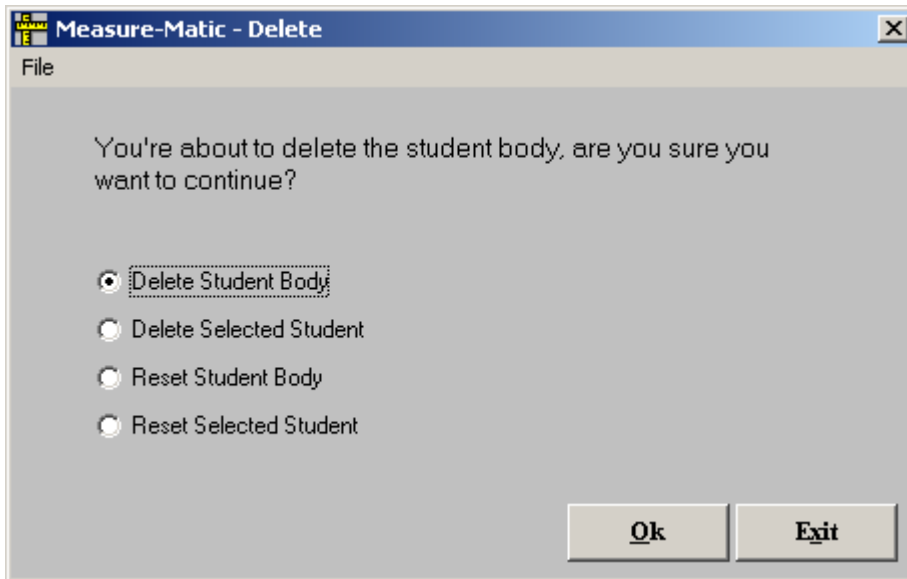


Figure 4.17

To delete the current (active) student account, click “Delete”. This will open a prompt window displaying four options. To delete all student accounts, click “Delete Student Body”. To delete the current (active) student account, click “Delete Selected Student”. To reset all testing history for the entire student body (including “Administrator”), click “Reset Student Body”. To reset all testing history for the current (active) student, click “Reset Selected Student”. Click “Ok”.

Note: Once deleted, a student account is permanently removed. The only way to recreate the account is to create it as a new account.

Note: The “Administrator” account cannot be deleted. The testing history in the “Administrator” account can be reset, however.

Networking Measure-Matic

Figure 4.18

Clicking “Admin” opens the “Network Database” window (Figure 4.19).

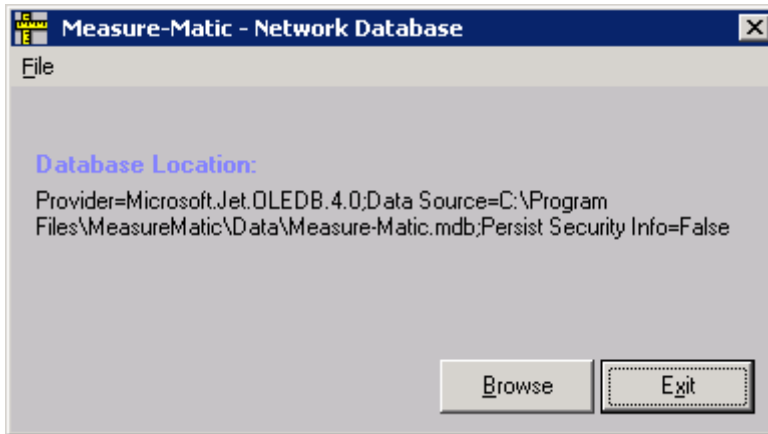


Figure 4.19

To access accounts on multiple workstations, the administrator must specify the network location of Measure-Matic. Click “Browse” to open Windows Explorer. The file specified (C:\Program Files\MeasureMatic\Data\Measure-Matic.mdb) must exist on the network drive all computers share. Copy the file from the default location on the C drive to a network drive all computers can access. After this file has been copied, click “Browse” on the other computers and find the database file on the shared network drive.

Note: All workstations must have Measure-Matic already installed prior to changing the database location, however, the shared network drive only needs “C:\Program Files\MeasureMatic\Data\Measure-Matic.mdb”. Please contact a network administrator for your organization for additional help.

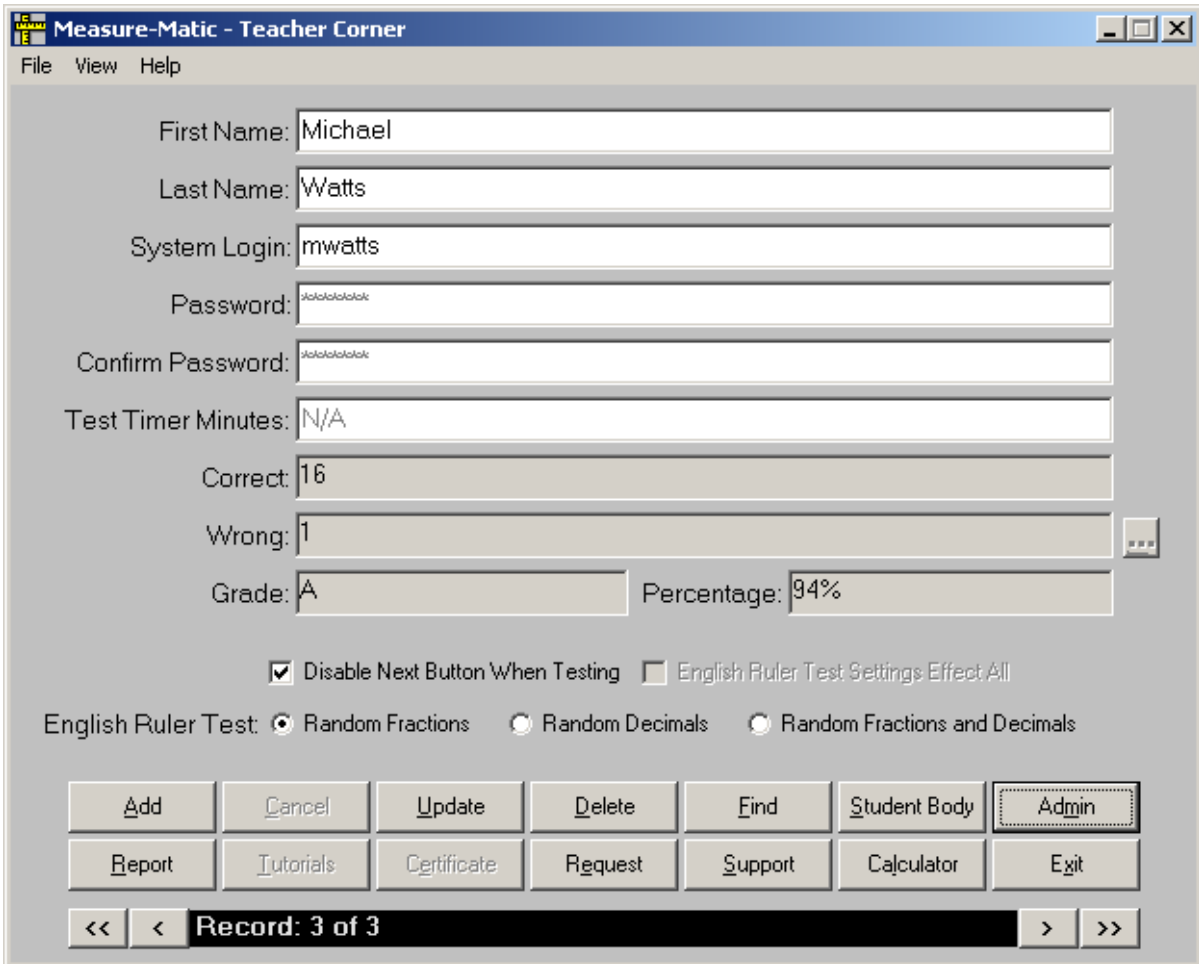


Figure 4.20

The “Request” and “Support” commands automatically e-mail Sawmill Software to request software updates and support or to suggest improvements to the program.

Sawmill software encourages instructors to share their viewpoints and ideas to fulfill our company philosophy of “Partnership Design”. Through collaboration, Sawmill Software can continue to improve its software.

Auto-Update

Clicking the “About” menu option displays information regarding the current version of Measure-Matic (Figure 5.0).

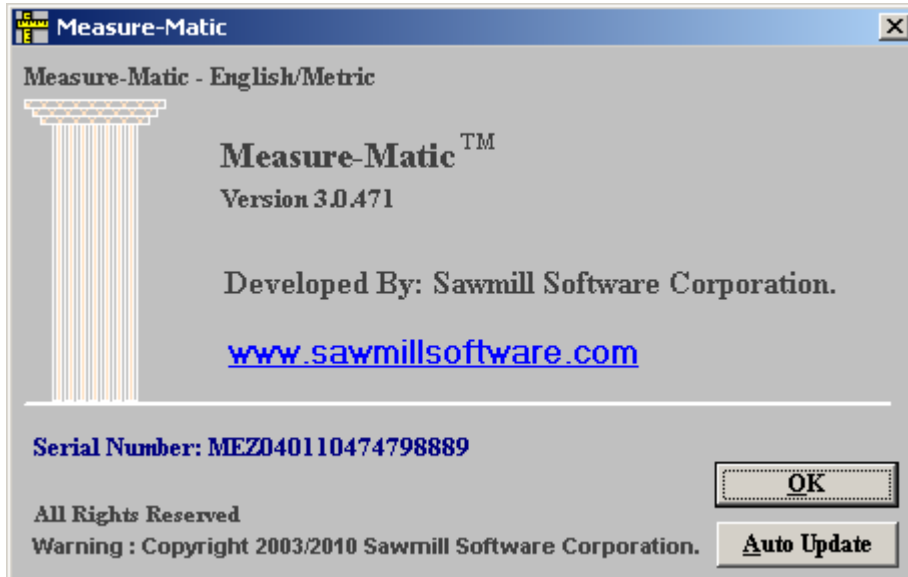


Figure 5.0

The About window will appear that displays the version number of Measure-Matic, website link to Sawmill Software, and the Serial Number of the current version. Click “OK” to close the about window. Click “Auto-Update” to perform an automatic update of the program to the latest version available.

Note: The workstation must have internet access for the Auto-Update feature to be performed.

The auto updates now prompts the user for the admin password that is used to access Teacher Corner. Also mention that updates should only be done by someone logged into Windows as an Administrator. The auto update may need to register a file on the system, and non-administrator accounts cannot do this.

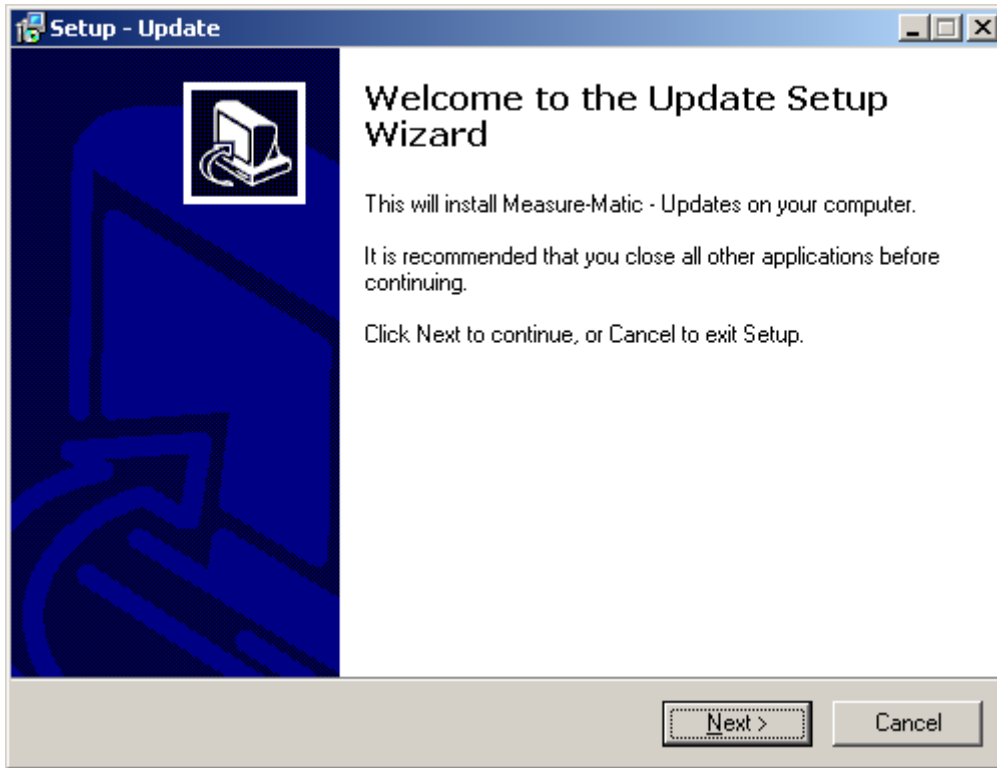


Figure 5.1

The program will close automatically and the Auto-Update installation utility will open (Figure 5.1). Click "Next" to update Measure-Matic for the workstation.

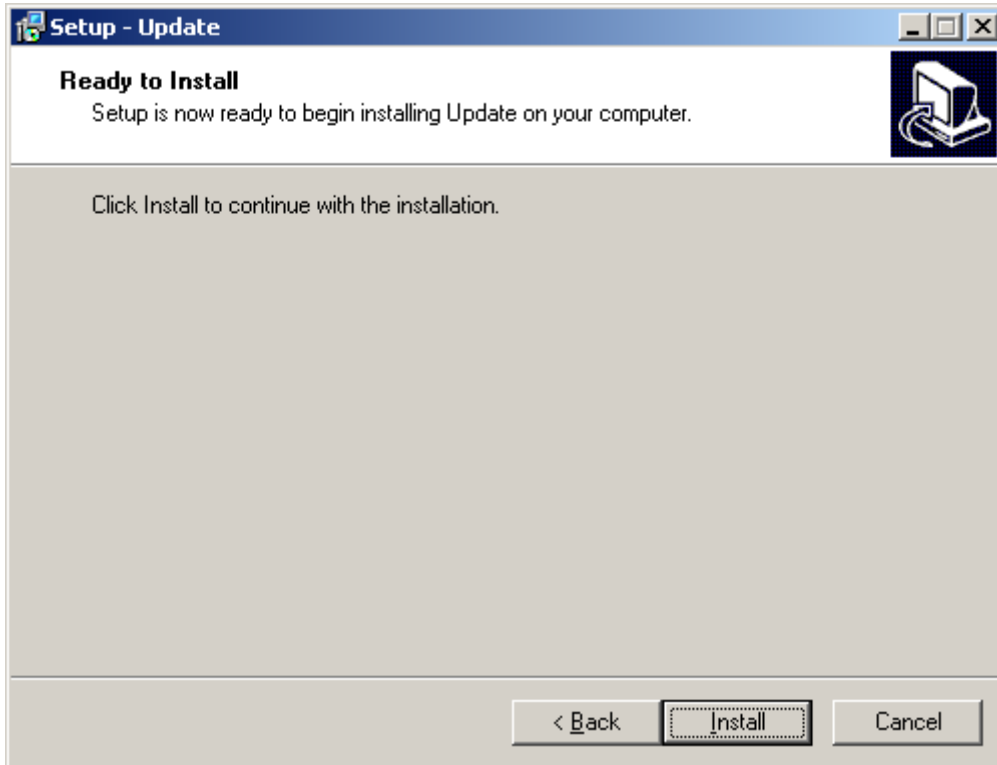


Figure 5.2

Click "Install" to continue with the program update (Figure 5.2).

Note: During installation of the program update, the registration number may have to be entered again, depending on the version of Windows used.

Note: If the program is being updated and is being used as a network version, the other instances of the program on the network must be updated also.

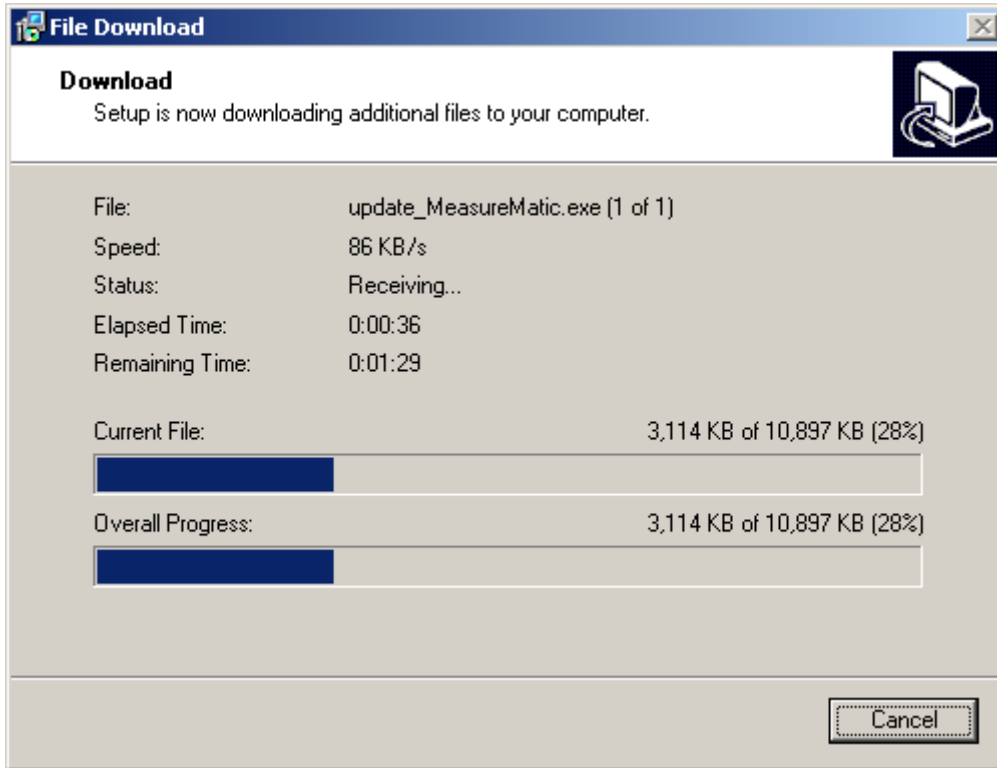


Figure 5.3

The Auto-Update utility will connect to the Sawmill Software website to download the latest copy of Measure-Matic (Figure 5.3).

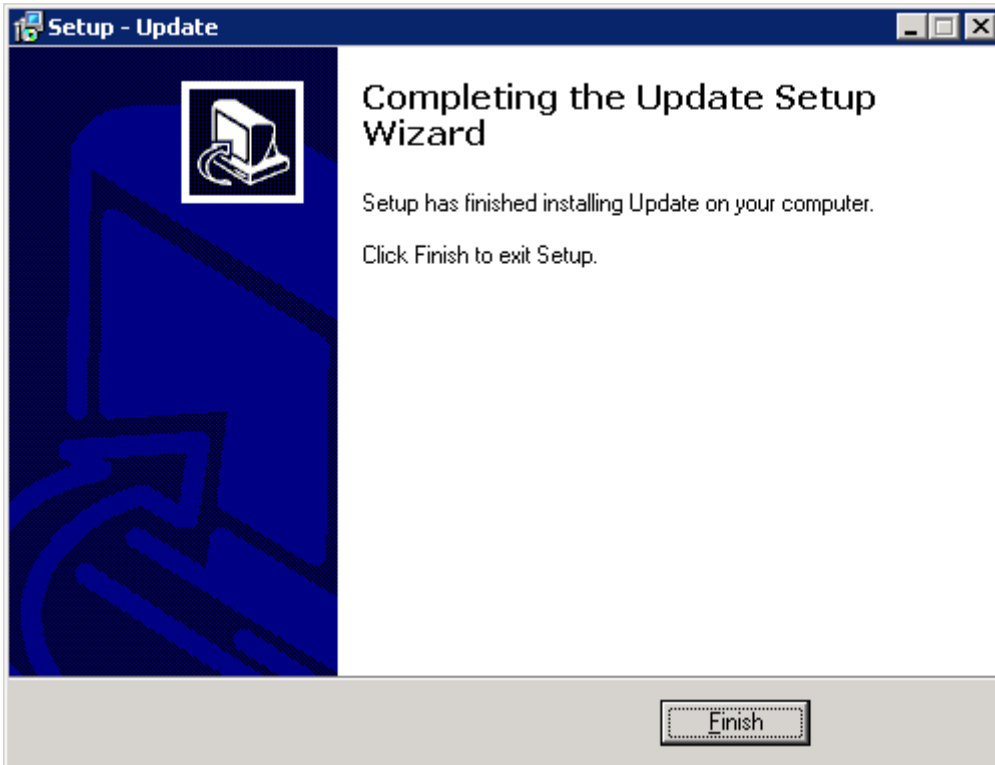


Figure 5.4

After the program updates are downloaded, click “Finish” to complete the installation of the updated program (Figure 5.4).

Navigation

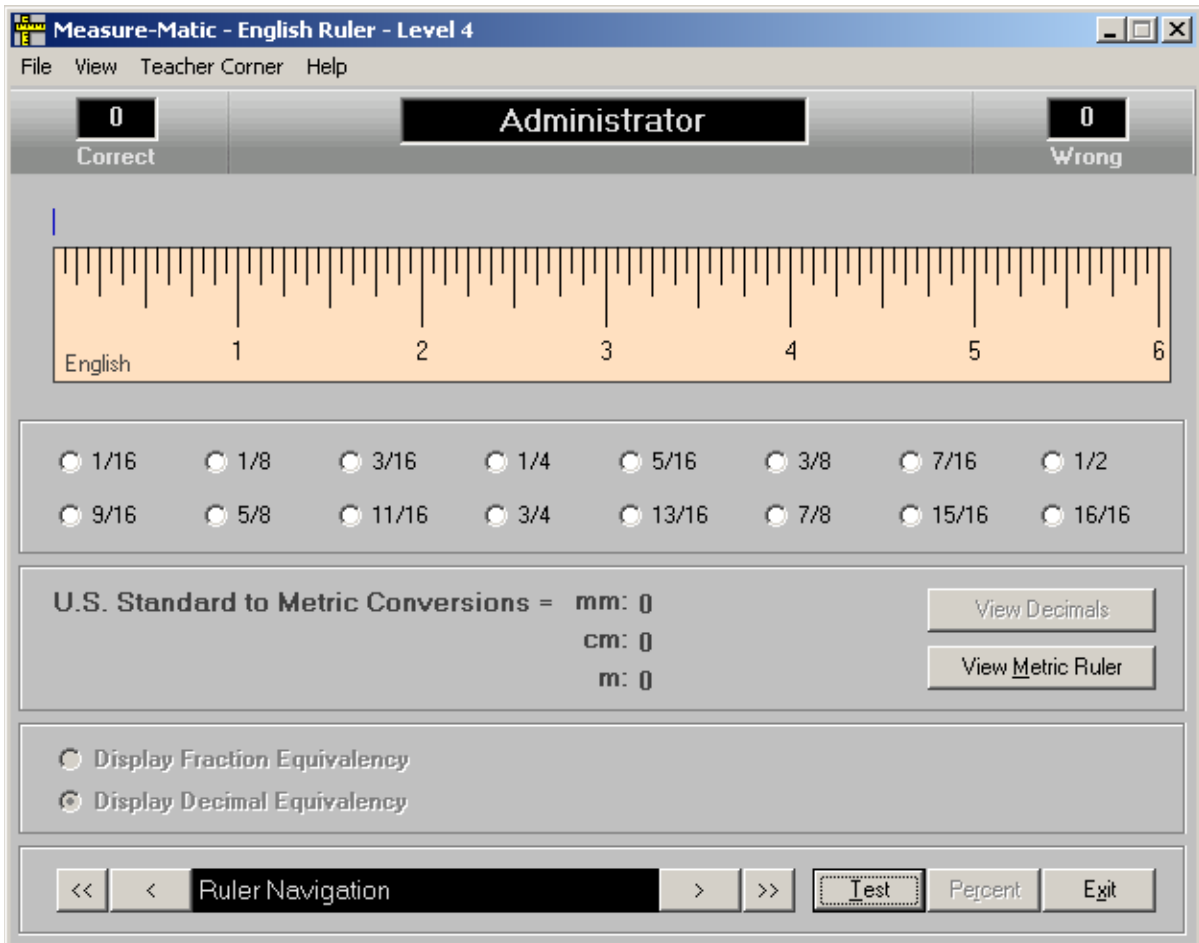


Figure 6.0

To select the measurement, use the arrows at the bottom left of the screen. The double arrows (<< >>) move the ruler measurement to the nearest higher or lower whole unit (inch, centimeter). Use the single arrows (< >) to move to the nearest higher or lower small unit (e.g., quarter, sixteenth, millimeter, etc.).

Rulers

A total of 14 rulers and 1 micrometer are included within the program. The English and Metric rulers have different levels that correspond to the smallest number of units displayed on the ruler. These levels allow customization of the rulers to students of different skill levels.

English Ruler

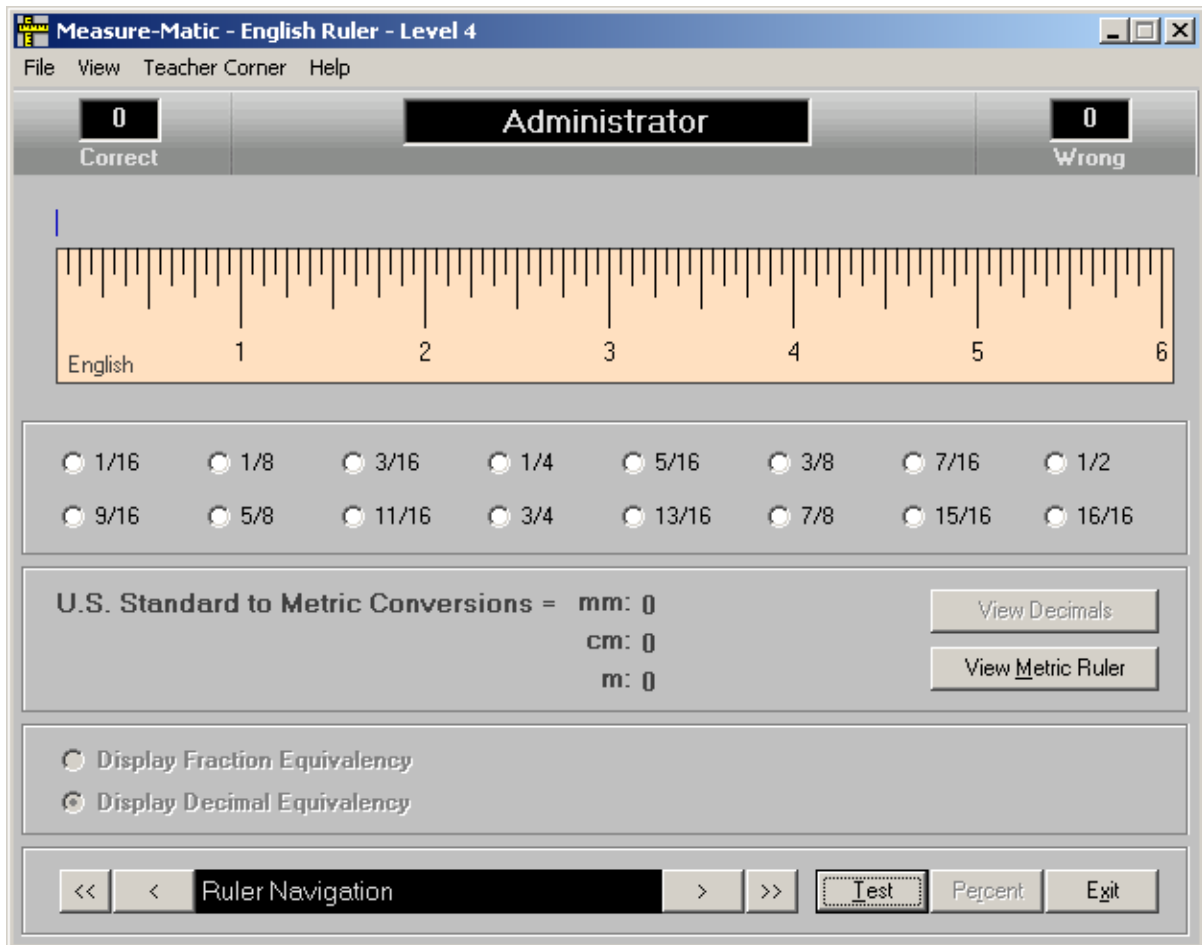


Figure 6.1

The default ruler is the English ruler (Level 4) that uses inches for measuring. Inches are broken into smaller units, with each smaller unit one-half of the previous unit. The units included in Measure-Matic are inch, half-inch, quarter-inch, eighth-inch, and sixteenth-inch.

Note: The default account is the “Administrator” account. It is recommended that the Instructor create student accounts prior to student use of the program through the “Teacher Corner”.

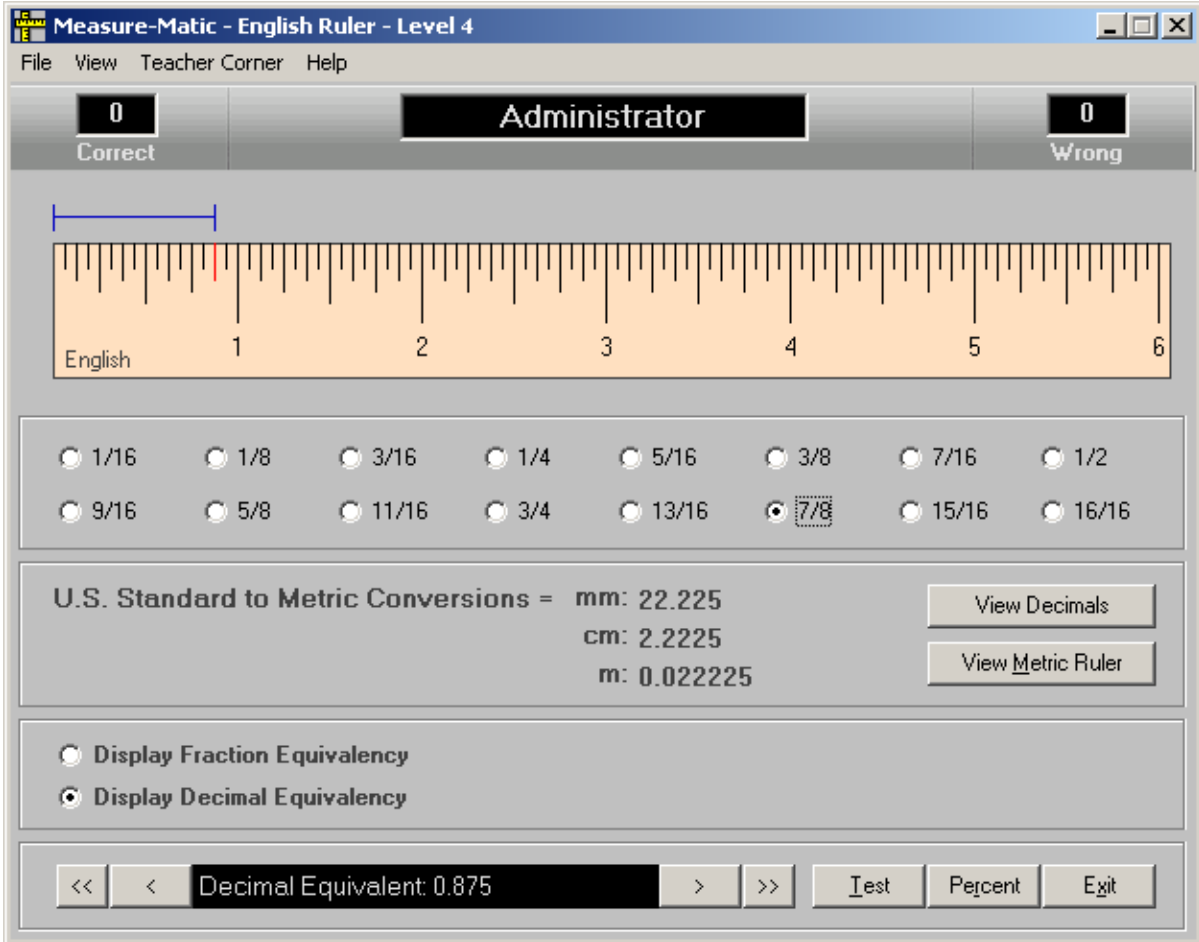


Figure 6.2

The blue line above the ruler shows the length selected. The measurement selected is highlighted in red. Finally, the metric conversions and decimal equivalent of the measurement are displayed at the bottom of the screen. This feature allows students to learn how to read the different markings on the English ruler.

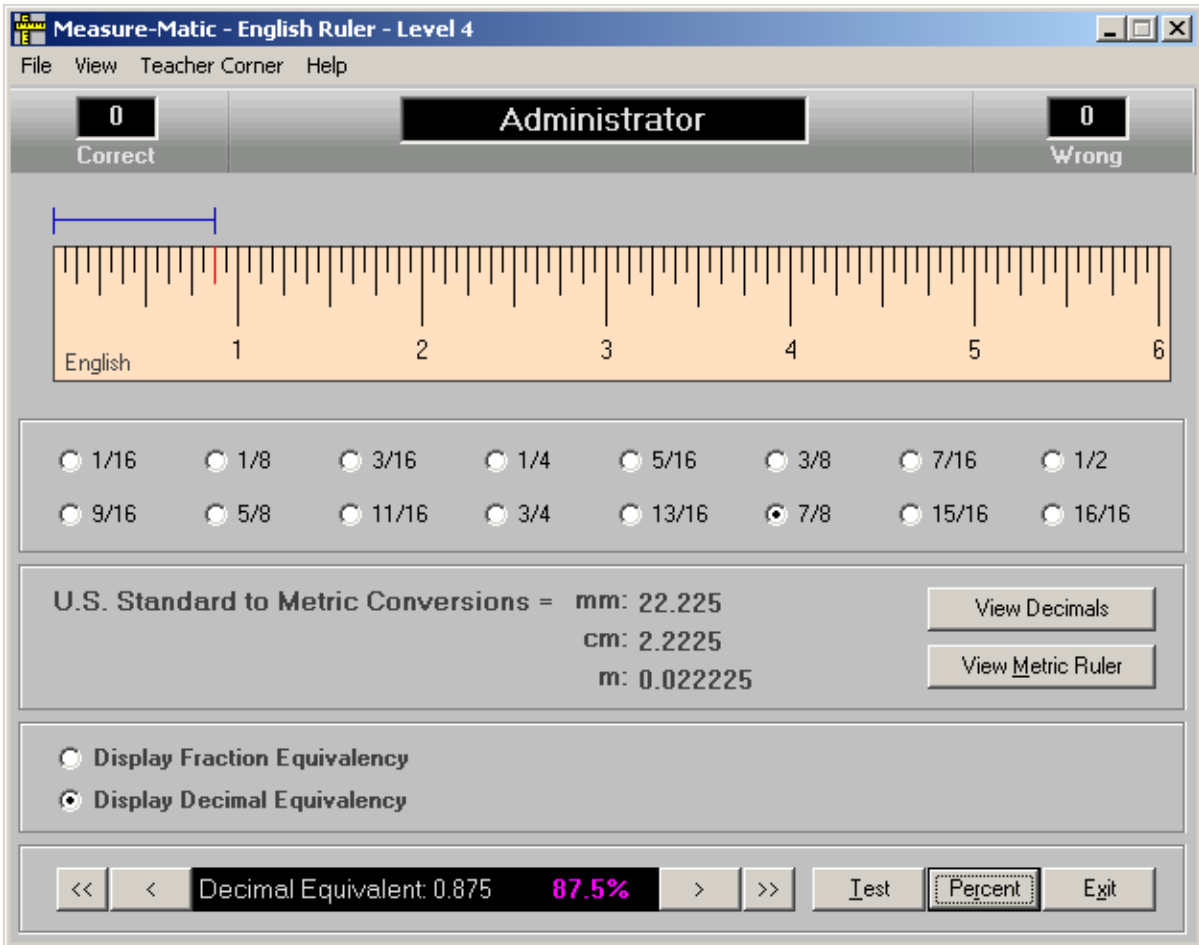


Figure 6.3

To determine the percentage equivalent of the measurement selected, click the “Percent” button. A purple percentage will display next to the “Decimal Equivalent” at the bottom of the screen. As shown in Figure 6.3, since $\frac{7}{8}$ of an inch was selected, a percentage of 87.5% is displayed.

Note: The percentage feature is only available for measurements between 0 and 1 inch.

Metric Ruler

To view the metric ruler, click the “View Metric Ruler” button or refer to the “Menu Options” section of this manual.

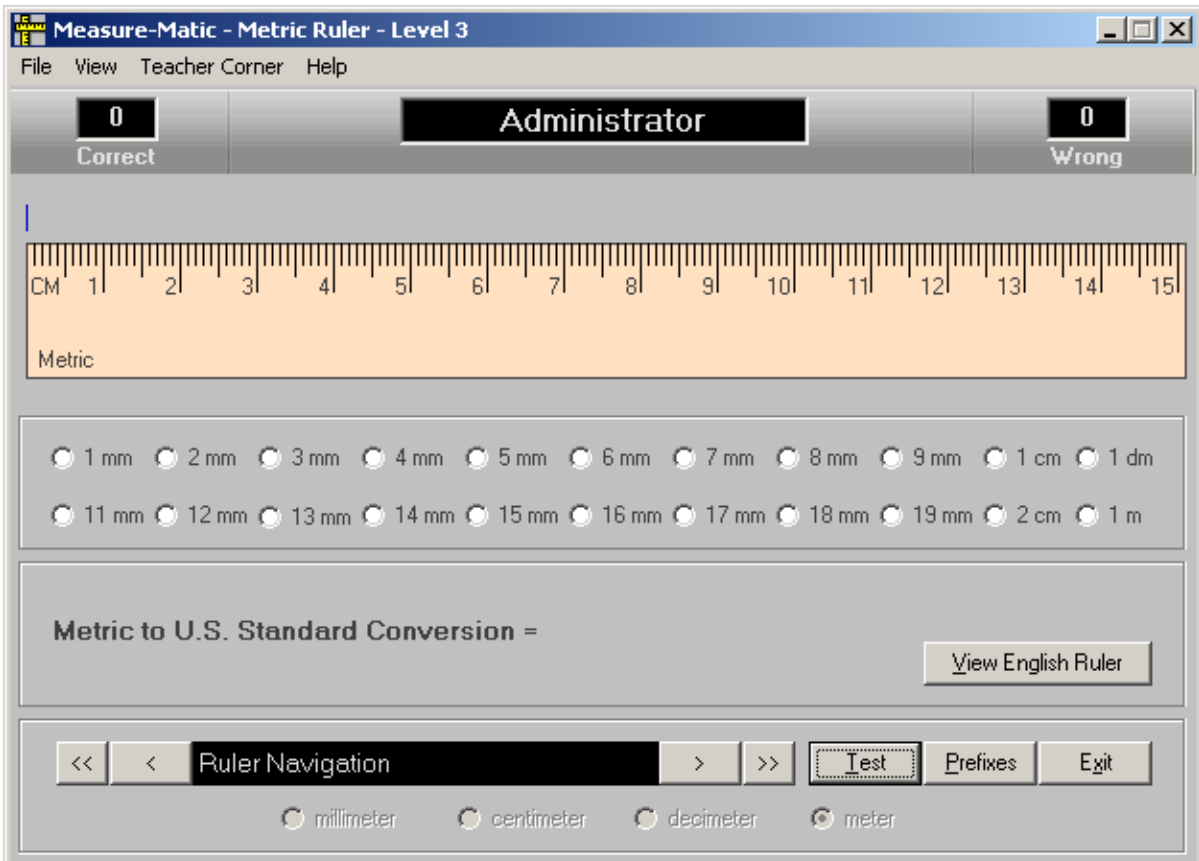


Figure 6.4

The metric ruler is based upon the International Standard (abbreviated SI) unit of length, the meter (or metre). The meter is based on factors of ten, where smaller units are ten divisions of the next larger unit (i.e., 10 millimeters in 1 centimeter).

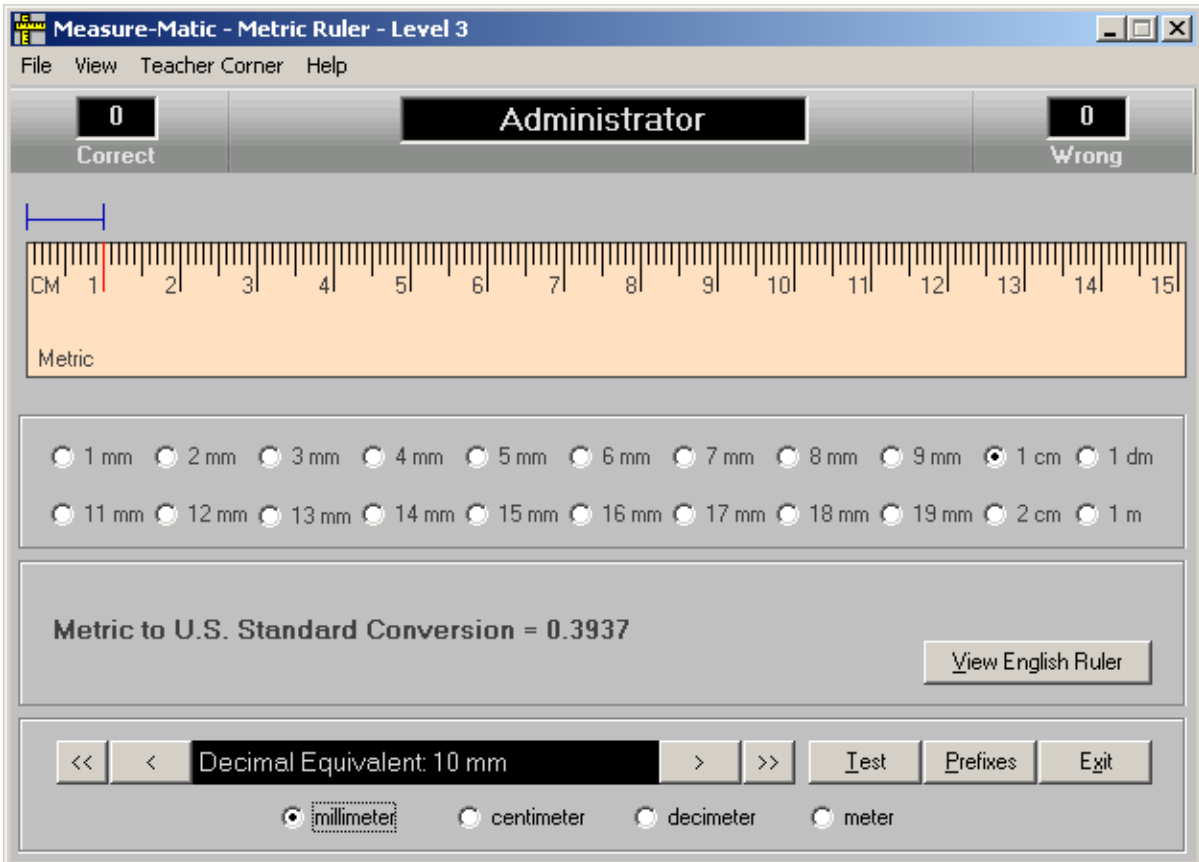


Figure 6.5

Measure-Matic's default metric ruler displays millimeters, centimeters, decimeters, and meters. Again, the student may select any of the listed measurements to highlight the measurement and learn the different values of the metric ruler. The Metric to U.S. Standard conversion shows the decimal inch equivalent of the measurement selected.

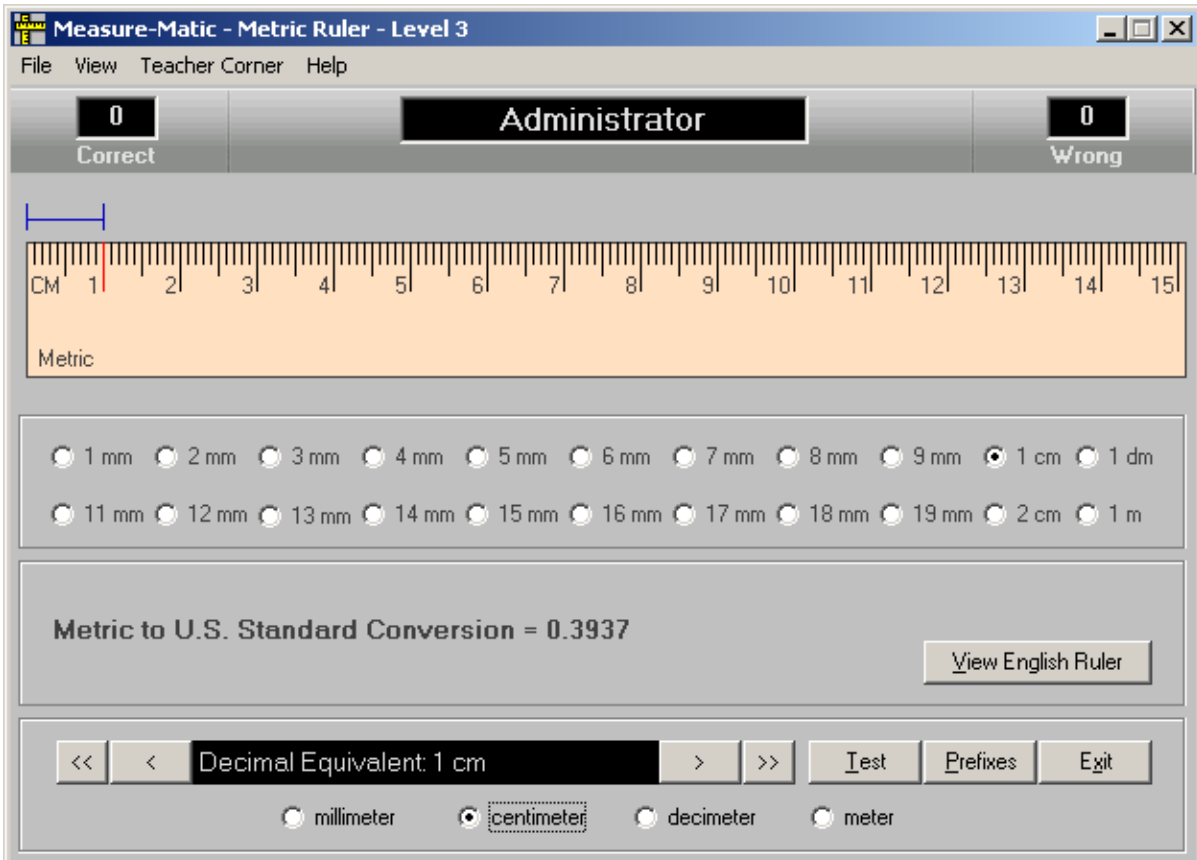


Figure 6.6

The decimal equivalent displayed at the bottom of the screen can be changed to another metric unit. Select the appropriate units underneath the display (millimeter, centimeter, decimeter, or meter). The Decimal Equivalent will automatically update, based on the unit selected.

As in the English Ruler, to test the student, click the “Test” button. See the Navigation | Rulers | Testing section of this guide for more information about testing.

The Multiplying SI Prefixes		
Prefix	Symbol	Factor by which the unit is multiplied
tera	T	$10^{12} = 1000000000000$
giga	G	$10^9 = 1000000000$
mega	M	$10^6 = 1000000$
kilo	k	$10^3 = 1000$
hecto	h	$10^2 = 100$
deca	da	$10^1 = 10$
deci	d	$10^{-1} = 0.1$
centi	c	$10^{-2} = 0.01$
milli	m	$10^{-3} = 0.001$
micro	u	$10^{-6} = 0.000001$
nano	n	$10^{-9} = 0.000000001$
pico	p	$10^{-12} = 0.000000000001$
femto	f	$10^{-15} = 0.000000000000001$
atto	a	$10^{-18} = 0.000000000000000001$

The multiples and sub-multiples of the basic and derived units are not unrelated to the units in the UK and US systems (e.g. yard, foot, inch, pound, grain, and ounce). They are formed by means of prefixes, which are the same no matter to which unit they are applied.

Figure 6.7

By clicking on the “Prefixes” button, a new window will display the common SI prefixes, symbols, and factor by which the unit is multiplied for any SI unit. This screen may be printed for future reference by clicking the “Print” button. Clicking “Exit” will close the prefix window only and return to Measure-Matic.

Architectural Scales

Ten Architectural scales available in Measure-Matic: three inch, one and one-half inch, one inch, three-quarter inch, half inch, three-eighth inch, quarter inch, three-sixteenth inch, eighth inch, and three thirty-second inch scale. In these scales, one foot is represented by each different measurement. As the scale decreases, the level of detail will decrease because the size being represented increases. This is useful for displaying large objects like buildings or rooms and is most commonly found on blueprints. Scaling the measurement allows the scale's user to determine which scale can display the level of detail required.

These scales can teach students how to use the architectural ruler to determine measurements using the different scales and how to convert a measurement from one scale to the next.

On the Architectural scales, whole graduations (representing the number of feet) are the marks with the large space before the zero mark and selected by the appropriate buttons underneath. Fractional graduations (representing the number of inches) are the smaller divisions after the zero mark and selected by the appropriate buttons underneath.

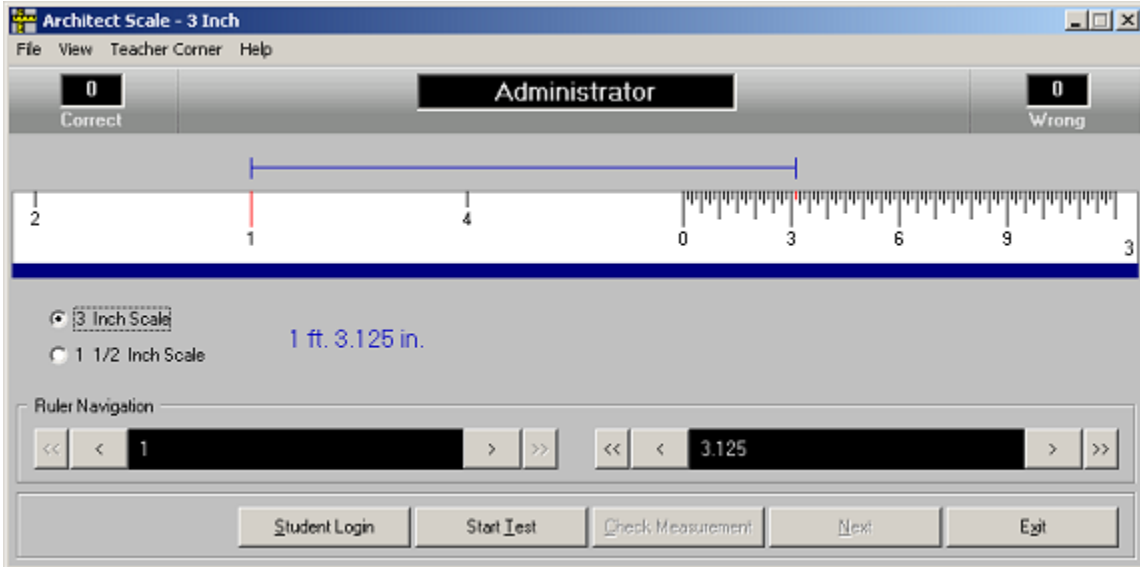


Figure 6.8

On the 3 inch scale, the “1” graduation actually measures three inches from the previous graduation. The amount to the right of the “0” graduation equals 9.625 inches. The total measurement on the one-inch scale is then 1 foot, 9.625 (or 9 and 5/8) inches.

To display additional scales on the same ruler, each scale is presented with its half value in reverse order. On the three inch scale (Figure 6.8), the smaller “2” and “4” graduations are the one and one-half inch scale (Figure 6.9), counted from the left.

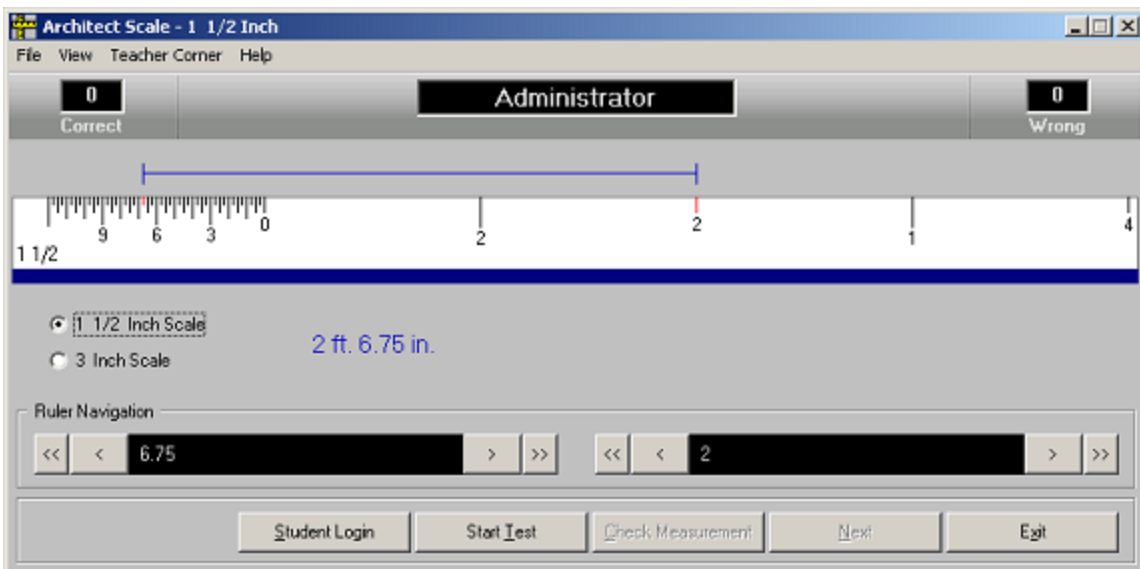


Figure 6.9

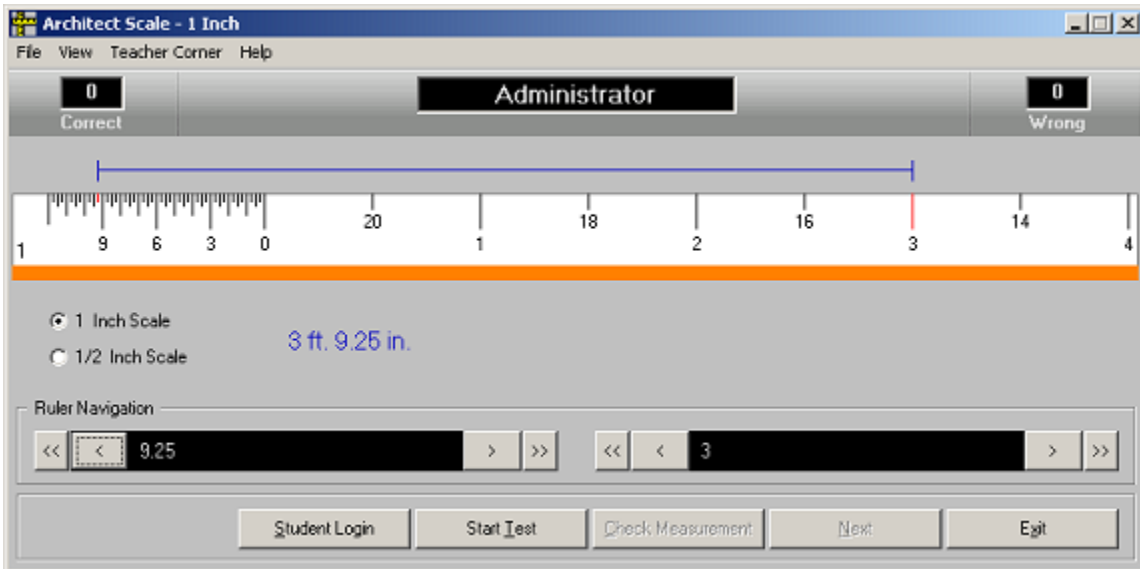


Figure 6.10

The one inch scale (Figure 6.10) is displayed with the one-half inch scale (Figure 6.11).

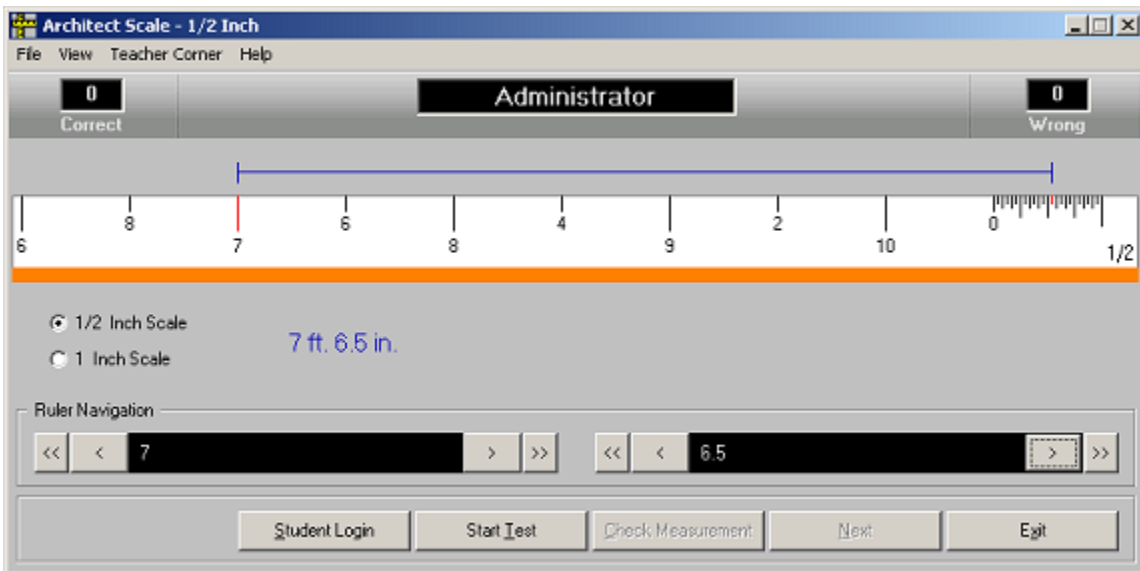


Figure 6.11

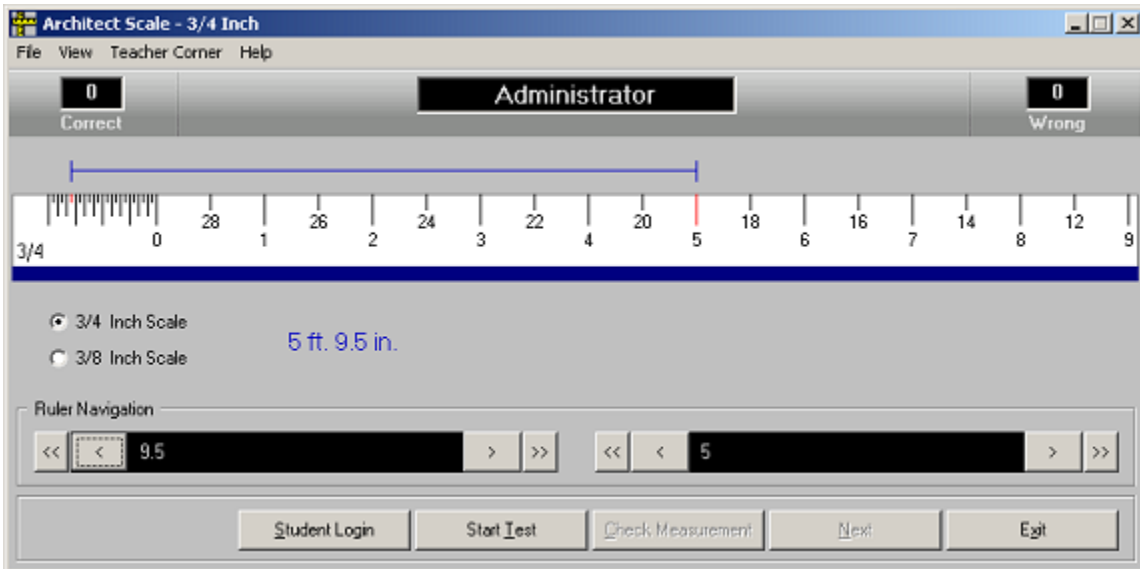


Figure 6.12

The three-quarter inch scale (Figure 6.12) is displayed with the three-eighth inch scale (Figure 6.13).

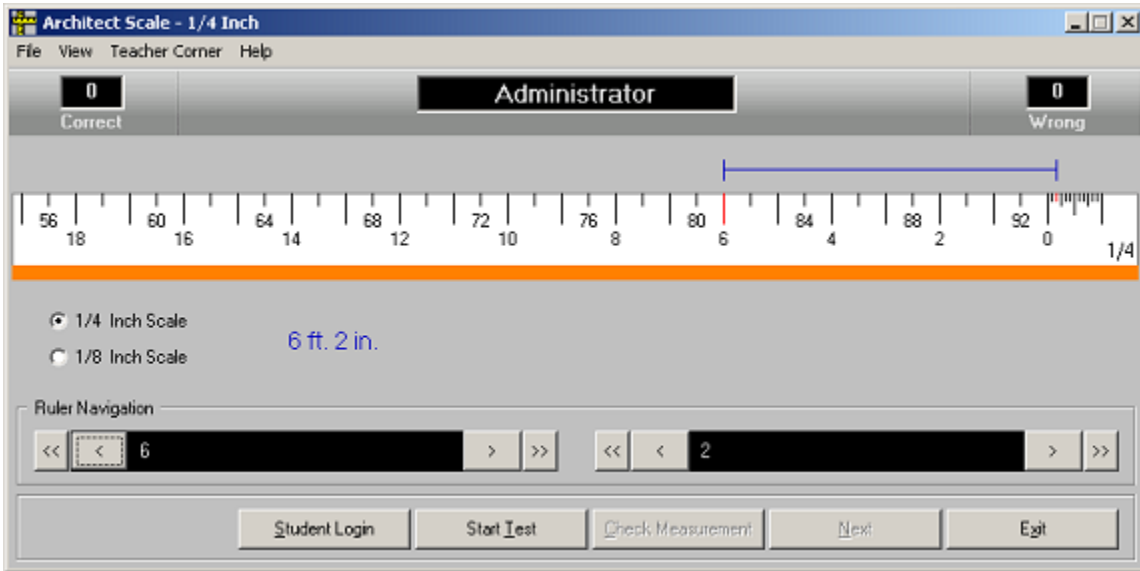


Figure 6.13

The one-quarter inch scale (Figure 6.13) is displayed with the one-eighth inch scale (Figure 6.14).

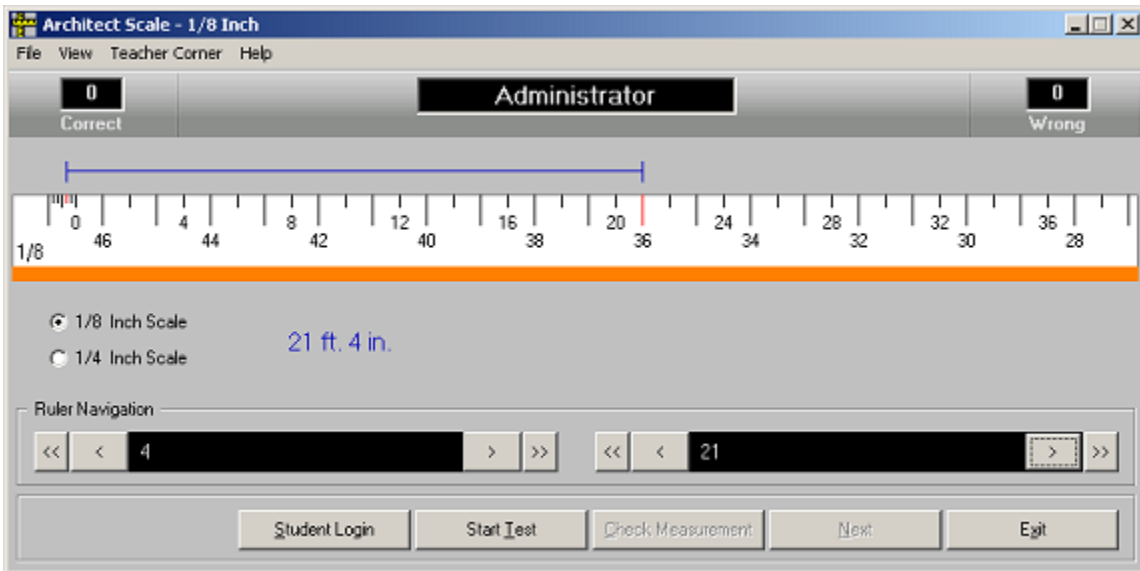


Figure 6.14

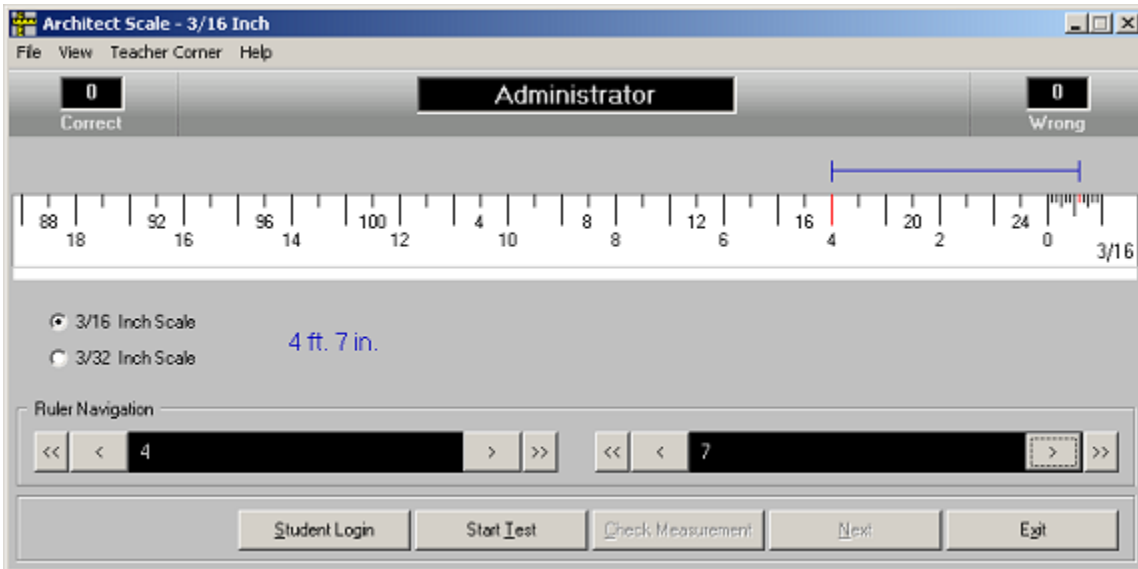


Figure 6.15

Finally, the three sixteenth (Figure 6.15) and three thirty-second scales (Figure 6.16) are displayed together.

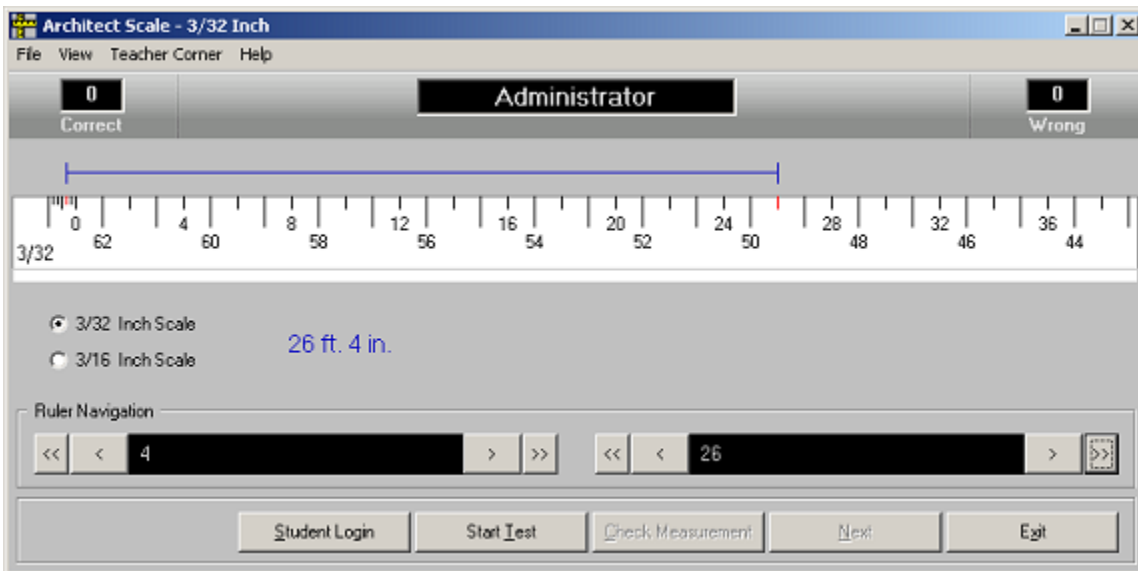


Figure 6.16

The color on the bottom of the scale denotes which of the three sides of an Architectural scale is being used. Orange is used for one inch, one-half inch one-quarter inch, and one-inch scales. Blue is used for the three inch, one and one-half inch, three-quarter, and three-eighth inch scales. White (or the scale's default color) is used for the three-sixteenth, three thirty-second scales, and a normal English ruler, measuring to at least a sixteenth of an inch. Each grouping of scales is displayed on either the top or bottom of that side of the ruler, allowing all ten Architectural scales and a normal English ruler to be contained on one scale with three sides.

To test the student, click the “Test” button. See the Navigation | Rulers | Testing section of this guide for more information about testing.

Other Rulers

Two other rulers available in Measure-Matic: the 32nd inch ruler and the 64th inch ruler. In these rulers, an inch is divided into 32 parts and 64 parts, respectively, allowing for more precision in measurements. The rulers are not to the same scale as the English ruler. The numbers displayed are for ease in determining the measurement. The measurements on the standard rulers do not contain fractions in reduced form, which may be beneficial to instructing the student in converting fractions (i.e., $4/32'' = 1/8''$).

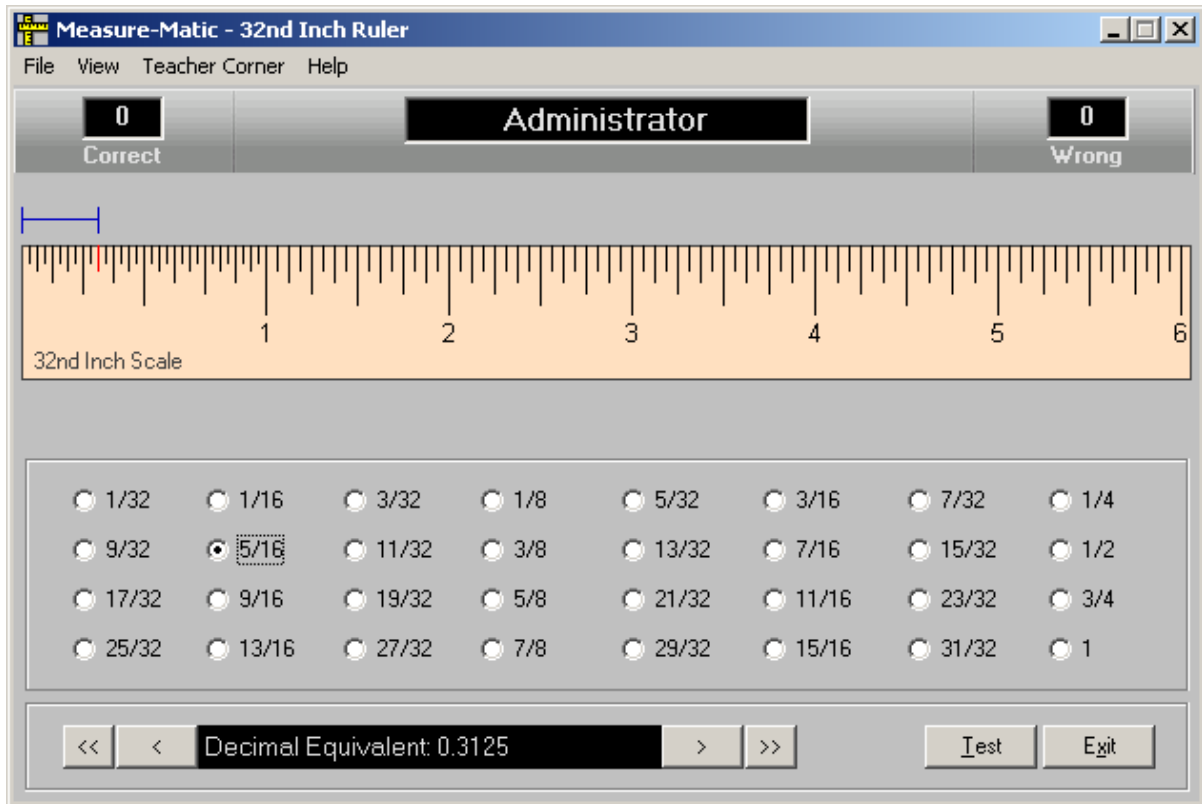


Figure 6.17

On the 32nd inch ruler, any measurement from 1/32 of an inch to 32/32 of an inch (1 inch) may be selected. To test the student, click the “Test” button. See the Navigation | Rulers | Testing section of this guide for more information about testing.

Please contact Sawmill Software for additional information or program development regarding these rulers.

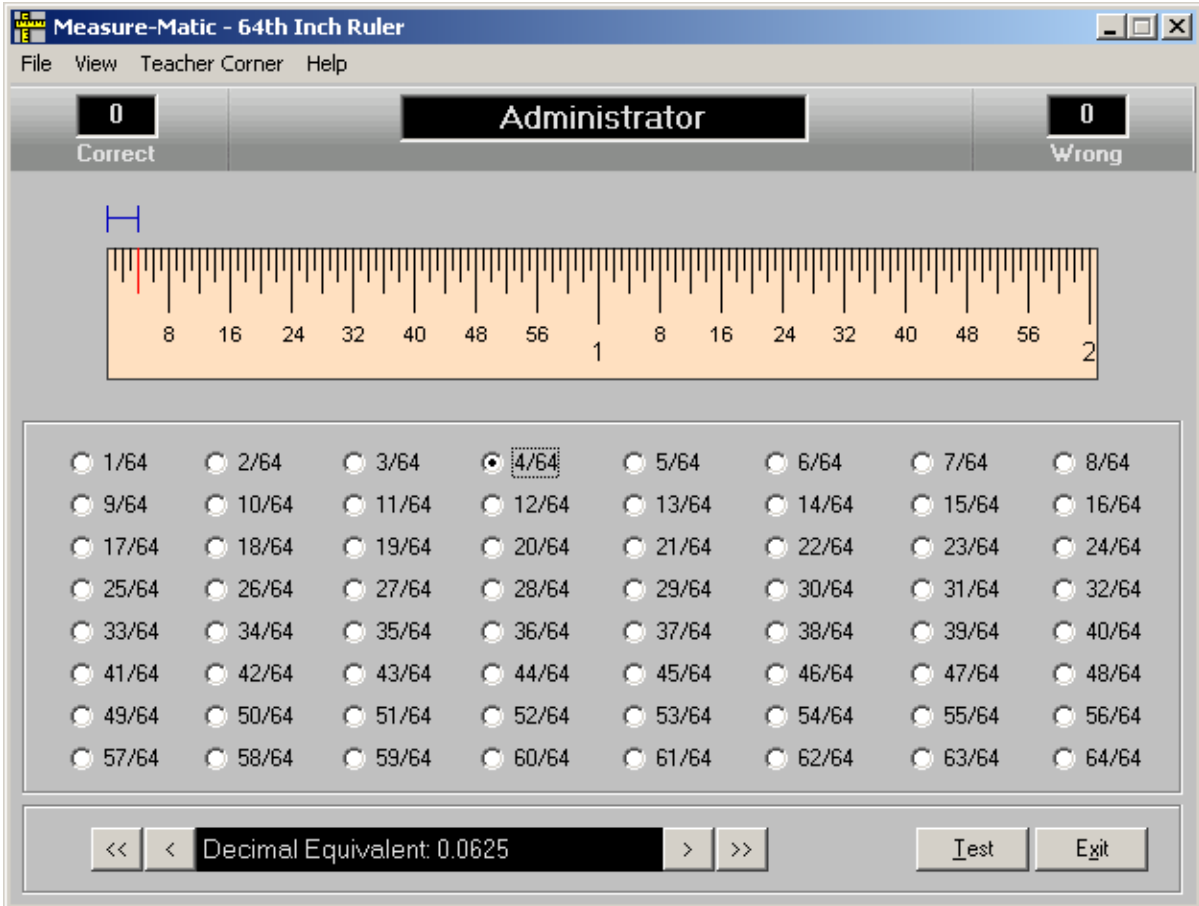


Figure 6.18

On the 64th inch ruler, any of the measurements from 1/64 of an inch to 64/64 of an inch (1 inch) may be selected. To test the student, click the “Test” button. See the Navigation | Rulers | Testing section of this guide for more information about testing.

Please contact Sawmill Software for additional information or program development regarding these rulers.

Micrometer

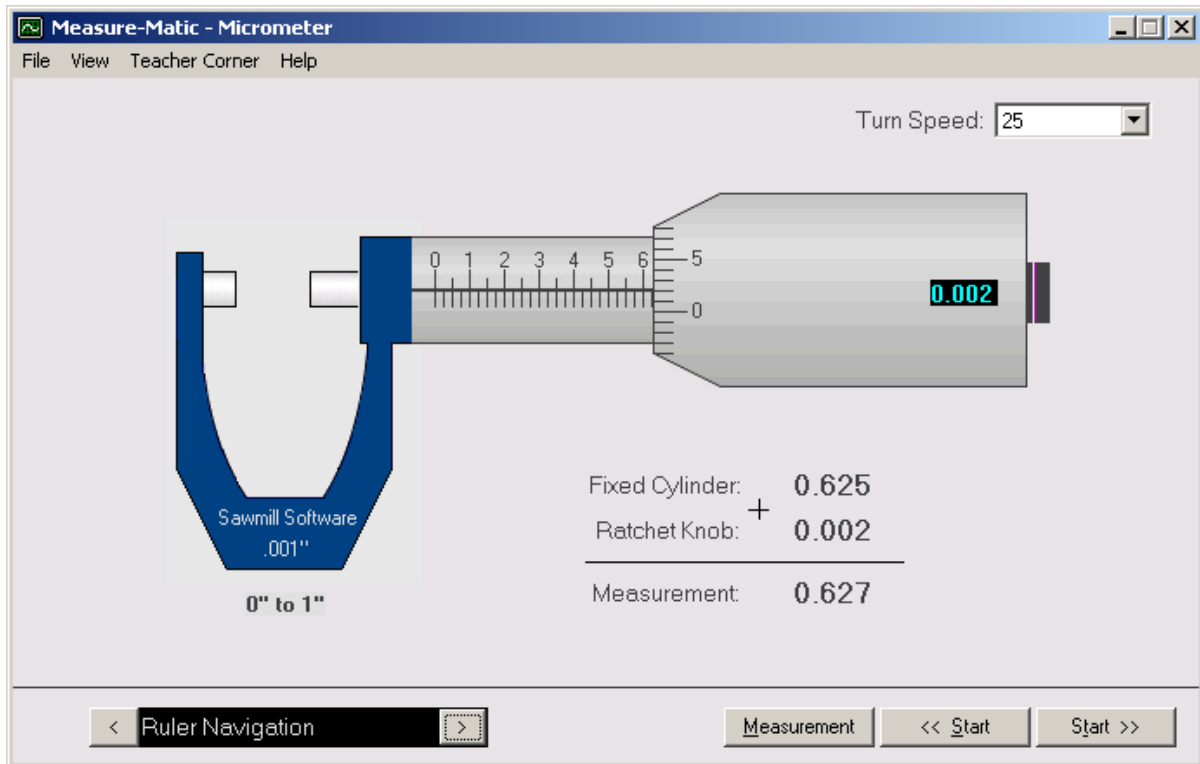


Figure 6.19

Measure-Matic includes a micrometer, an extremely precise instrument that measures to the thousandths of an inch between its jaws. The ratchet knob on the right side is used to close the jaws on the object to be measured. The tick marks along the fixed cylinder of the micrometer represent 25 separate thousandths of an inch. Another 0.025 inches is revealed for each complete revolution of the movable ratchet knob, opening the jaws.

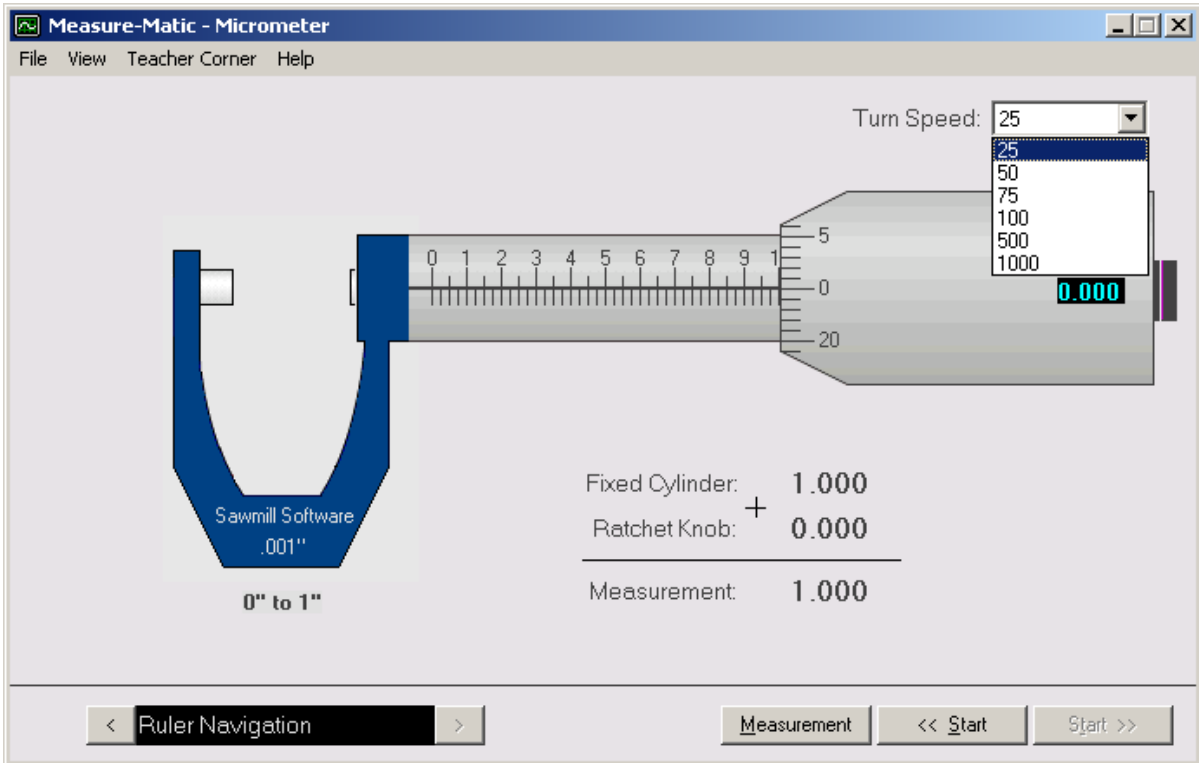


Figure 6.21

The screen automatically displays the readout on the fixed cylinder and ratchet knob and sums these two readouts to obtain the total measurement. The readout to the right of the ratchet knob displays the reading on the ratchet knob. Two methods can be used to change measurements: using the arrow buttons (< >) at the bottom of the screen to change the readout by 0.001 millimeters or by using the Start buttons (<< >>), which turn the ratchet knob by the selected turn speed in the direction selected. To stop the ratchet from turning, click “Measurement”.

Speed	Ratchet Speed (approximate)
25	1 revolution in 25 milliseconds
50	1 revolution in 50 milliseconds
75	1 revolution in 75 milliseconds
100	1 revolution in 100 milliseconds
500	1 revolution in 500 milliseconds
1000	1 revolution in 1000 milliseconds

Testing

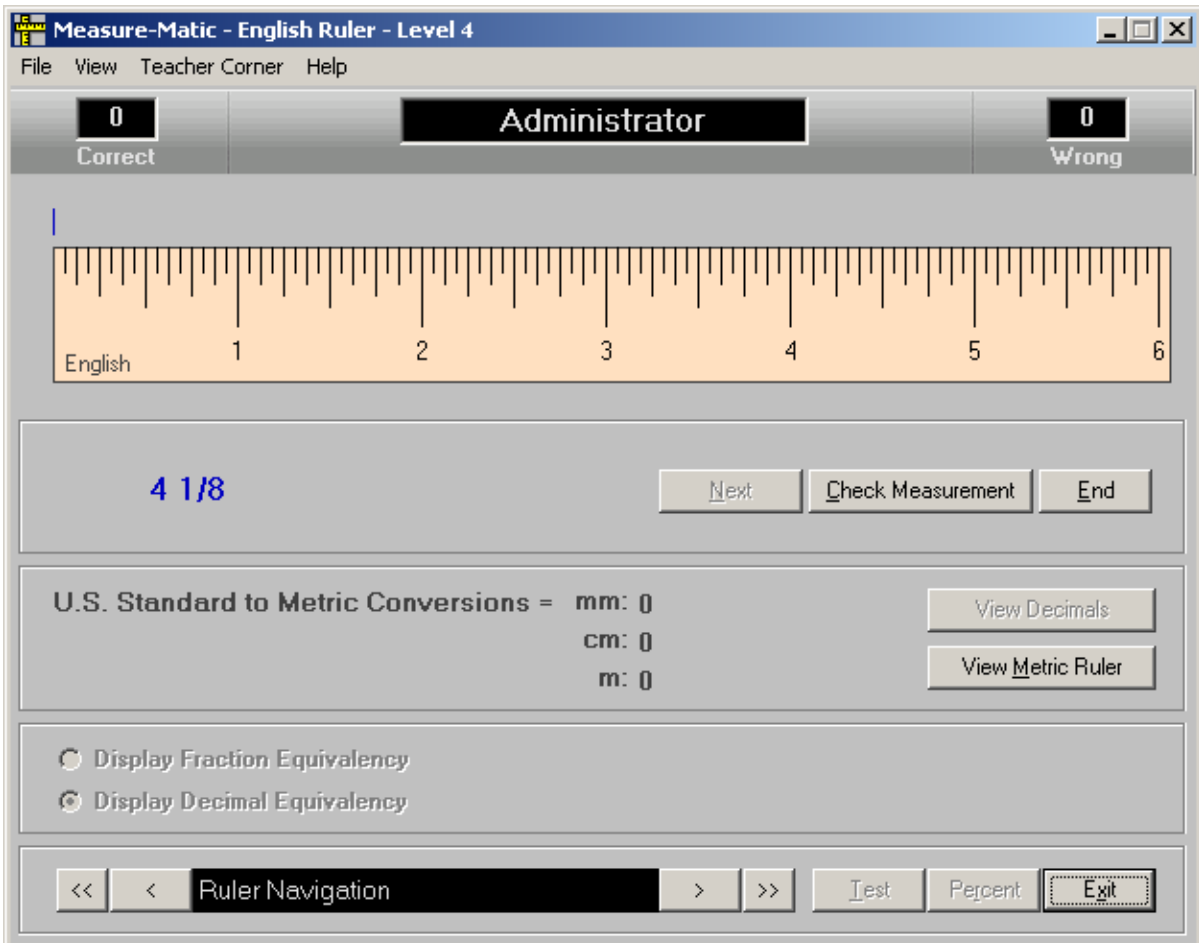


Figure 6.22

To test the student's knowledge of reading ruler measurements, click the "Test" button. This will cause the program to enter test mode for the specific ruler currently displayed. To enter the test mode on a different ruler, change to the desired ruler; the Description | Menu Options | View section of this guide contains more information about changing rulers.

The English, Metric, and 32nd inch and 64th inch rulers test students in a similar manner. Please refer to the Navigation | Rulers | Testing – Architectural scale section of this guide for information about this specific test mode. Currently, a test mode is not available for the micrometer.

The measurement display is replaced by a random blue test measurement. The student must use the navigation arrows at the bottom of the screen to move the blue line to where the student believes is the correct measurement. After the student is satisfied that the selected measurement is correct, they click on "Check Measurement".

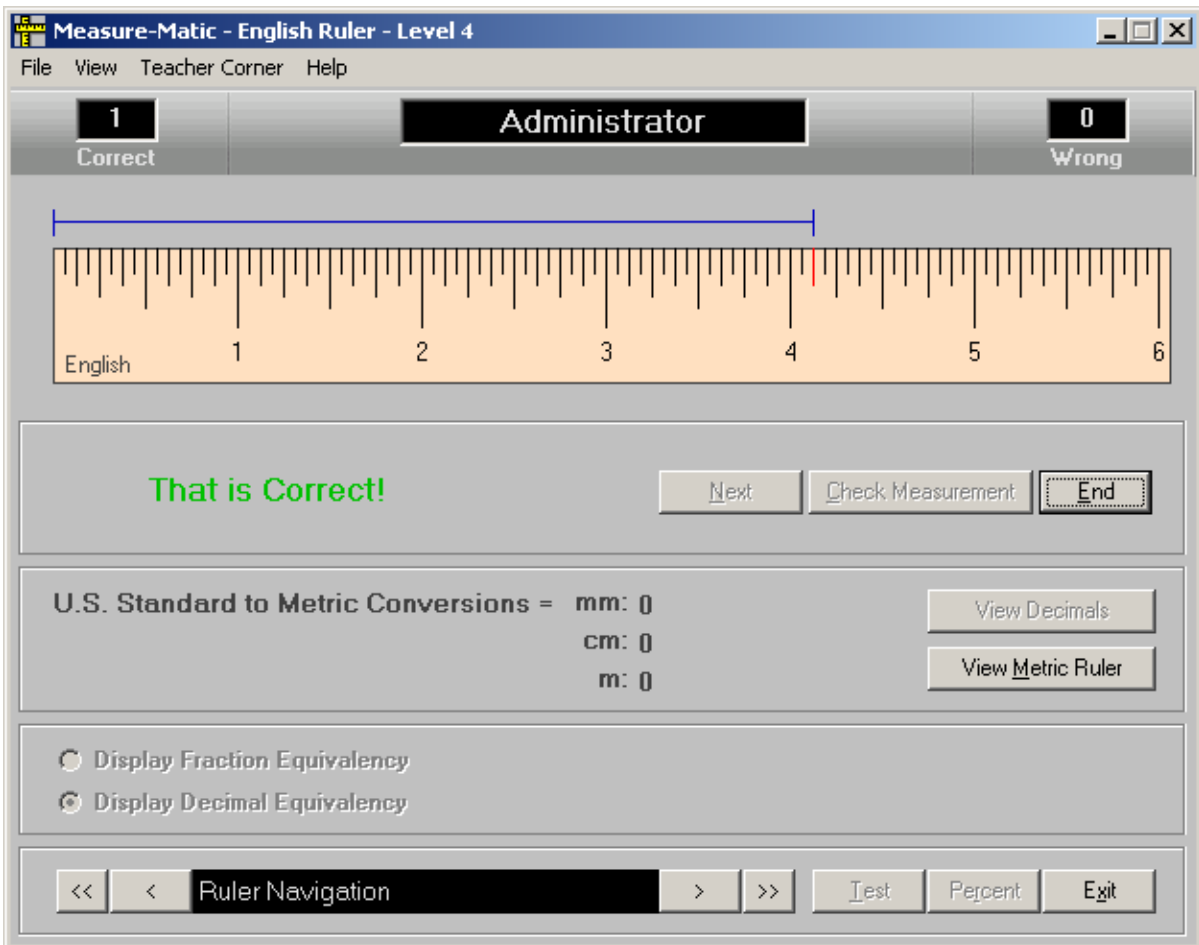


Figure 6.23.a

If the measurement the student selected is correct, “That is Correct!” will display and another measurement will be automatically generated.

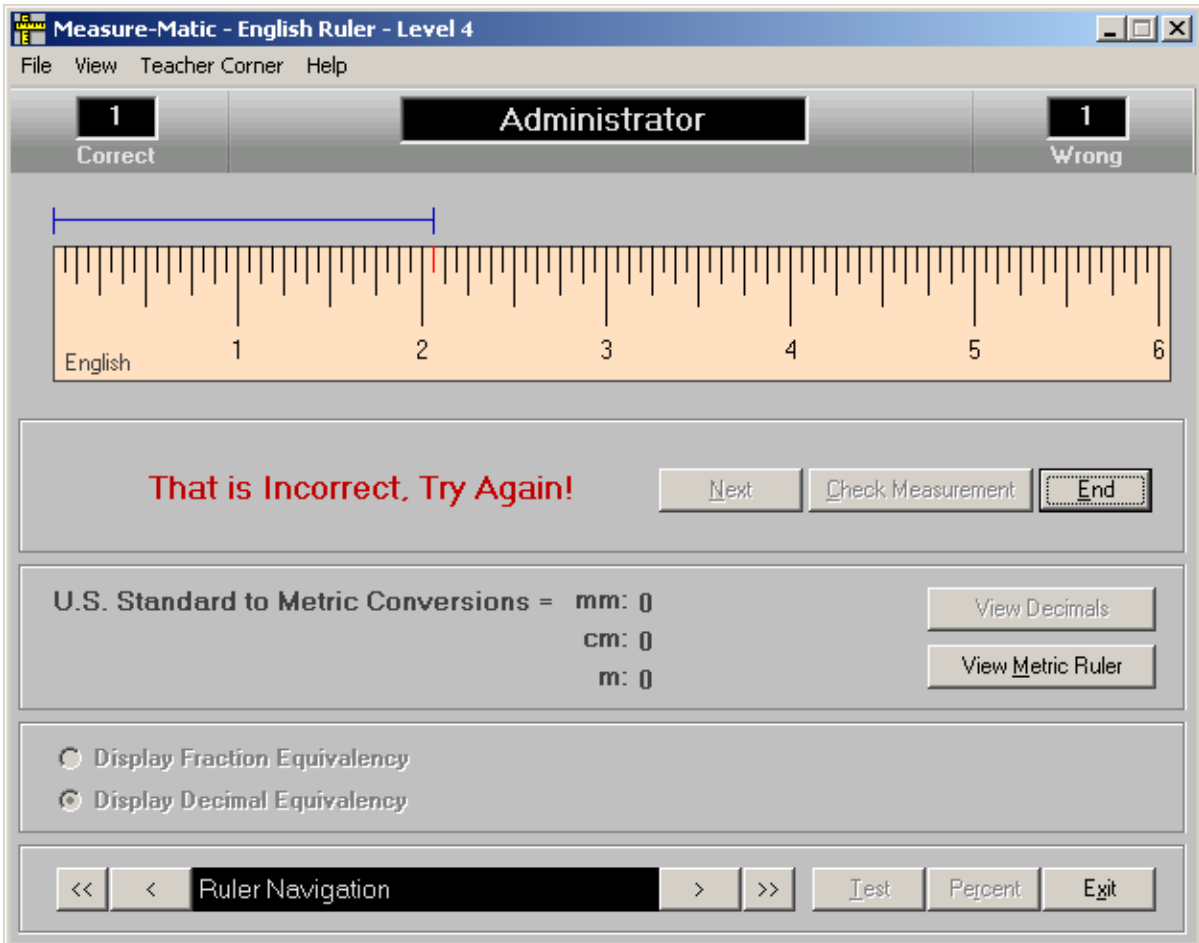


Figure 6.23.b

If the measurement the student selected is incorrect, the program will display “That is Incorrect!” The same measurement will again be displayed, offering the student another chance to try and select the appropriate measurement. If the student does not locate the appropriate measurement on the second attempt, the system will automatically display the correct measurement and move onto the next measurement.

A student may click the “Next” button to skip the measurement currently displayed; this feature may be disabled in the “Teacher Corner”. A student may also click the “End” button to stop testing, returning the program to the measurement mode. Note: While in test mode, the program automatically tallies the student correct and incorrect responses. Instructors can view each individual student’s report in the “Teacher Corner”. Please refer to the “Teacher Corner” section of this manual for instructions on how to view student reports.

Testing – Architectural Scale

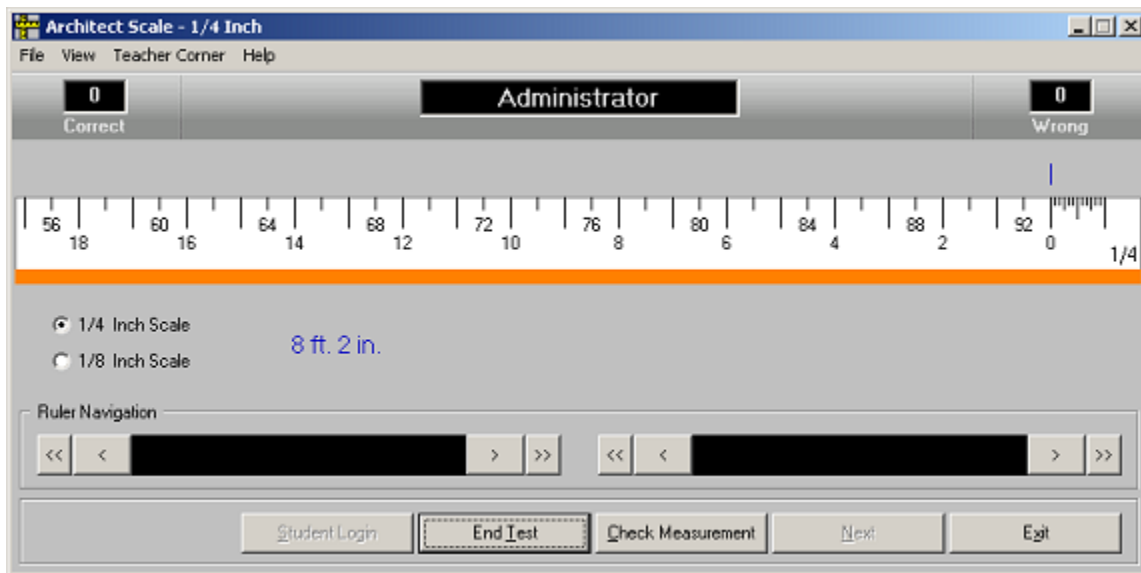


Figure 6.24

To test the student's knowledge of reading Architectural scale measurements, click the "Test" button. This will cause the program to enter test mode for the specific scale currently displayed (Figure 6.24). To enter the test mode on a different scale, change to the desired scale; the Description | Menu Options | View section of this guide contains more information about changing rulers.

The English, Metric, and 32nd and 64th inch rulers test students in a similar manner. Please refer to the Navigation | Rulers | Testing section of this guide for information about test mode for these rulers. A test mode is not available for the micrometer.

The measurement display is replaced by a random blue test measurement. The student must use the navigation arrows at the bottom left of the screen to move the blue line to where the student believes is the correct measurement of feet. Then, the student must use the navigation arrows at the bottom right of the screen to move the blue line to where the student believes is the correct measurement of inches. It does not matter which measurement is selected first (inches or feet), but both measurements must be selected. After the student is satisfied that the selected measurement is correct, they click on "Check Measurement".

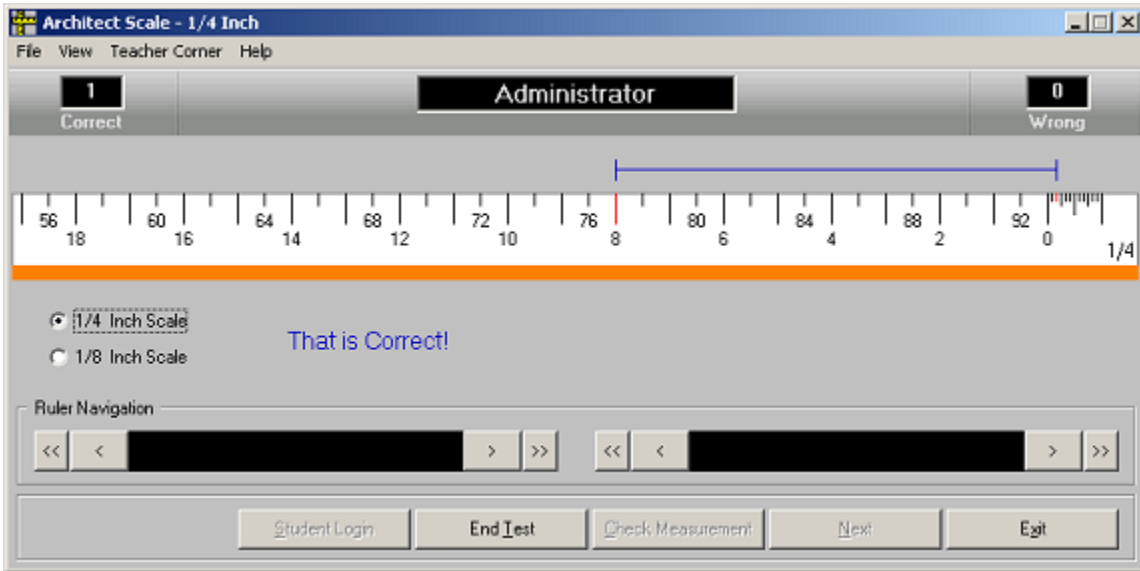


Figure 6.25.a

If the measurement the student selected is correct, “That is Correct!” will display and another measurement will be automatically generated.

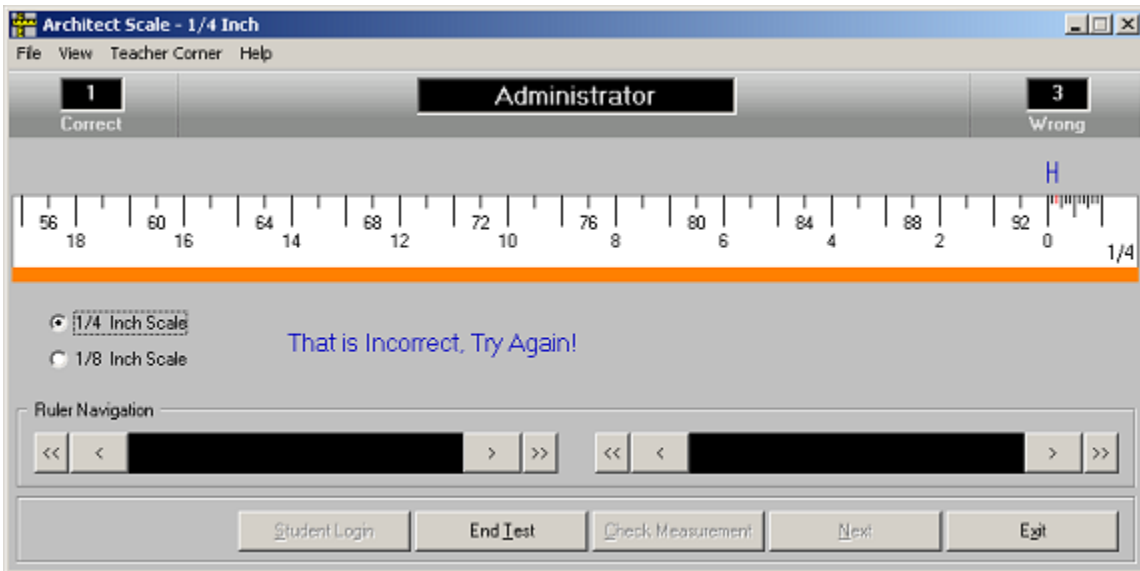


Figure 6.25.b

If the measurement the student selected is incorrect, the program will display “That is Incorrect, Try Again!”. The same measurement will again be displayed, offering the student another chance to try and select the appropriate measurement. If the student does not locate the appropriate measurement on the second attempt, the system will automatically display the correct measurement and move onto the next measurement.

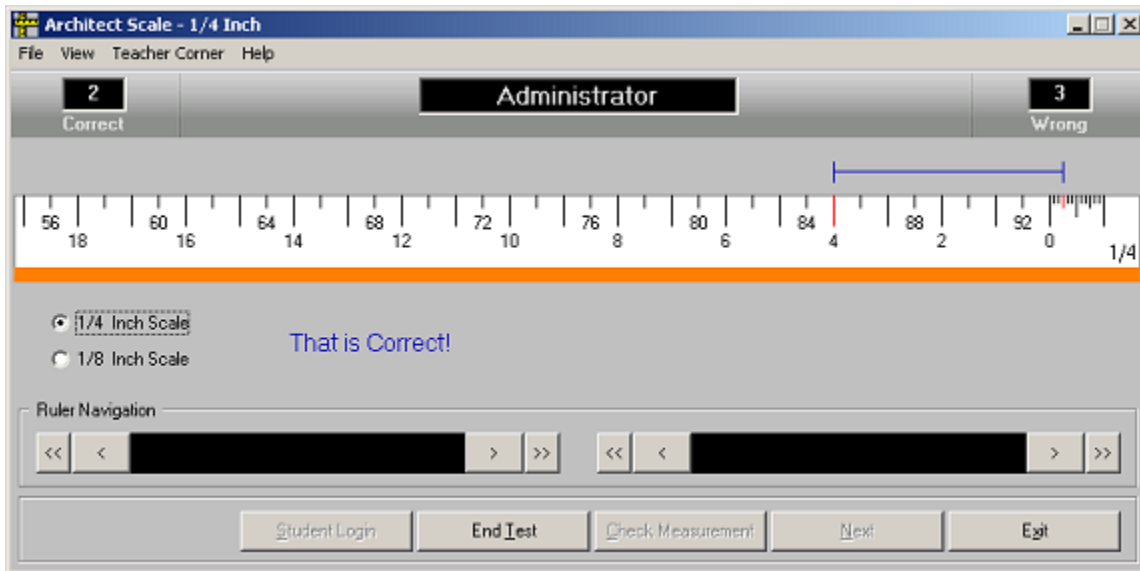


Figure 6.25.c

If the correct measurement is selected on the second try, the program will display “Correct Measurement!”.

A student may click the “Next” button to skip the measurement currently displayed; this feature may be disabled in the “Teacher Corner”. A student may also click the “End” button to stop testing, returning the program to the practice mode.

Note: While in test mode, the program automatically tallies the student correct and incorrect responses. Instructors can view each individual student’s report in the “Teacher Corner”. Please refer to the “Teacher Corner” section of this manual for instructions on how to view student reports.

Uninstalling Measure-Matic

To uninstall Measure-Matic, go to Start Menu | Programs | Measure-Matic | Uninstall Measure-Matic.

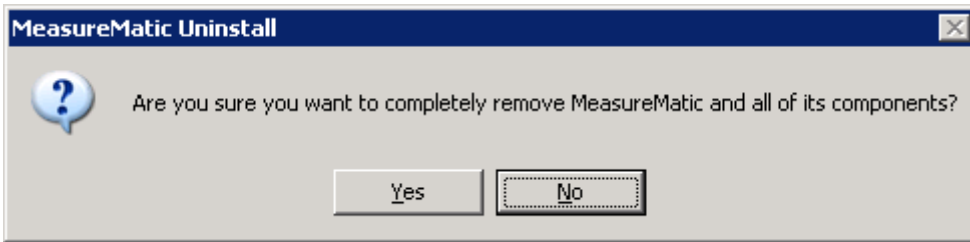


Figure 7.0

A dialog box will prompt for confirmation to uninstall Measure-Matic. Click “Yes” to continue or “No” to abort.

Note: Clicking “Yes” will completely remove Measure-Matic from the computer.

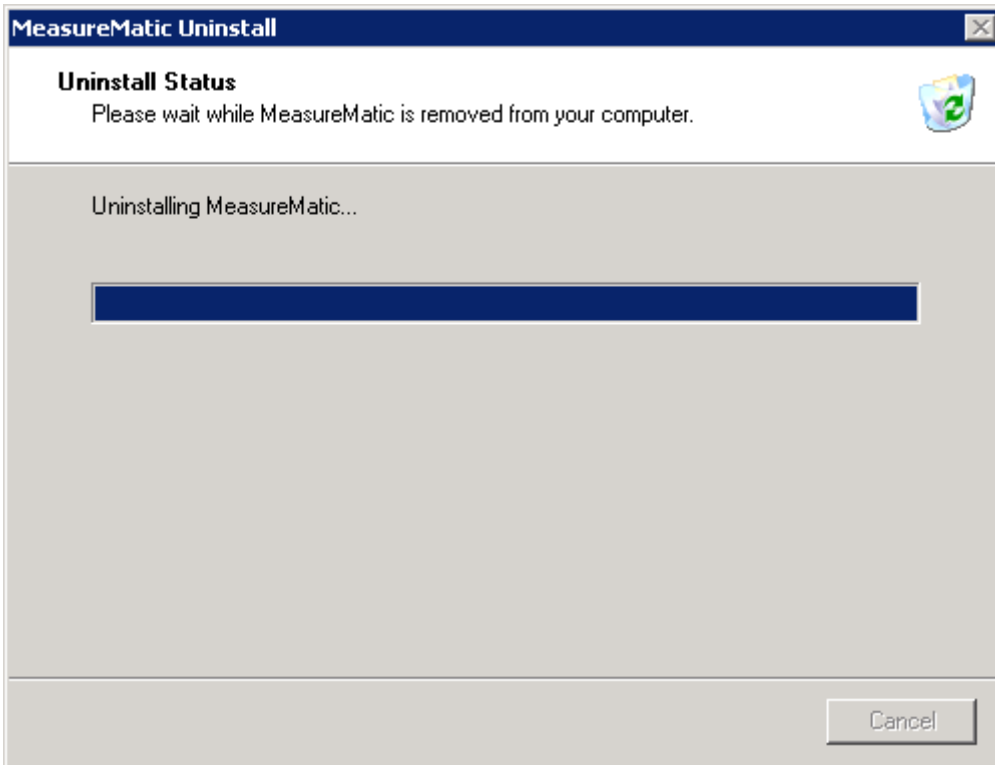


Figure 7.1

As Measure-Matic is being uninstalled from the computer, a screen will show the progress of the un-installation.

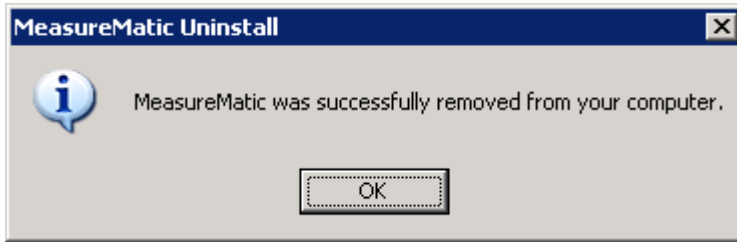


Figure 7.2

Click "OK" to complete the un-installation of Measure-Matic.

Important Information

Serial Number _____

ID Number _____

Key Number _____

Registration Number _____

Sales ID _____

Registered e-mail _____

Administrator Password _____

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