

## HOW TO INSTALL

### Math Trek High School

#### *REQUIREMENTS*

**Windows:** Microsoft Windows 95 or later with 310 MB of hard disk space.

**Macintosh:** MAC OS 8.6 or later, or MAC OS X, and 310 MB of hard disk space.

#### *INSTALLATION*

**Windows Download:** Right-click the ZIP file and select "Extract Files". Once extracted, the software can be installed. Double click the extracted Setup.exe file and follow prompts.

**Windows CD:** Insert the CD into your CD drive. Select Run from the Start menu. D:\Setup (or other letter identifying your CD-ROM drive) appears. Select OK and follow instructions. If installing onto a network, be sure to select a mapped network drive when prompted for the install location.

**Macintosh Download:** Double click the ZIP file.

**Macintosh CD:** Insert the CD into your CD drive. Drag and drop the folder called *Math Trek High School* from the CD onto your hard drive. If installing onto a network, be sure to install onto your network hard drive.

#### **Network Permissions**

Once the installation is complete, assign proper permissions to the Math Trek High School folder. Network installation requires that users have write access to the folder called **Data**, located in the **Math Trek High School Xtras** folder. For all other Math Trek components, read-only access is sufficient. Please refer to your network software documentation.

## Login

Log in and enter Math Trek in one of these three ways:

- a) **Guest login:** Click the Guest button. (Results for users logged in as Guests are **not** tracked.)
- b) **Student login:** Select a class and click the name of a student in that class from the lists on screen. Initially, there will be one predefined class called **Sample** and two demo students called **Jean Morin and Leslie Park**. Click one of the demo students – a password is NOT required. Additional students and passwords are assigned to classes by the teacher. Results for users logged in as students are tracked.
- c) **Teacher login:** Click the Teacher button. Enter the password **drowssap**. A user logged in as a Teacher has access to the Student Tracking System and can add classes and students, and change passwords. See the Teacher Utility section.

## Access the Instructional Components

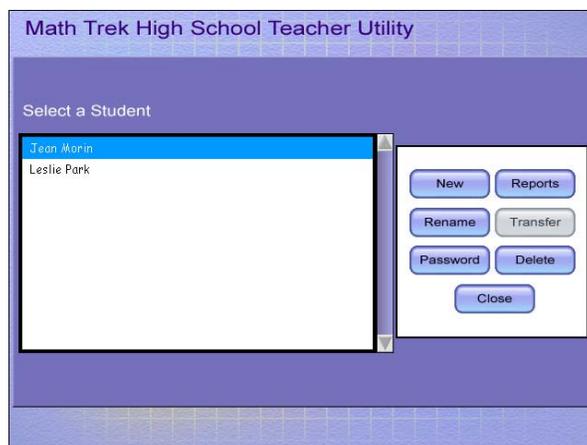
### Select a Module

To access the instructional components, first login as a guest or as a student. Select a module from the opening screen. Click one of the modules. You can then choose a topic, then a subtopic.

### Access the Teacher Utility

The Teacher Utility is used to track student activity and achievement, to add classes, students and passwords, and to print results.

To access the Teacher Utility log in as a Teacher. Select a class and click Open. See the instructions later in this manual for adding classes and students and for viewing and printing student results.



Teacher Utility Screen

## INTERACTIVE TUTORIALS

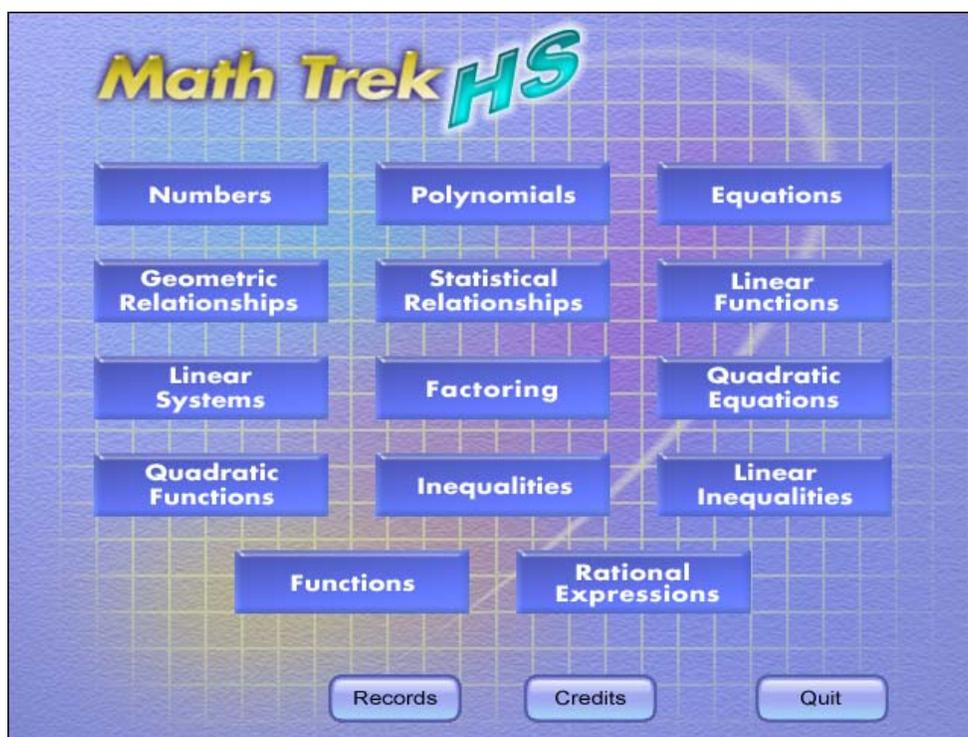
### *About the Tutorials*

The tutorials are designed for self-paced learning by students. They:

- foster self-directed learning
- are often based on problem solving
- provide sample problems with step-by-step solutions
- make effective use of graphics, colour and animation
- provide immediate feedback
- supply randomly generated examples
- contain periodic review

### *Accessing the Tutorials*

- Log in as a guest or student.
- Choose the strand from the main menu choices. Select a strand from the opening screen, (Numbers, Polynomials, Equations, Geometric Relationships, Statistical Relationships, Linear Functions, Linear Systems, Factoring, Quadratic Equations, Quadratic Functions, Inequalities, Linear Inequalities, Functions, and Rational Expressions). Click one of the strands. You can then choose a topic, then a subtopic.
- Select Interactive Tutorial from the choices in the rectangle below the strands.



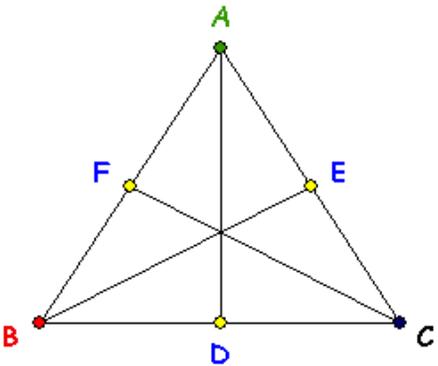
*Main Menu Screen*

## Tutorial Navigation Buttons

Each tutorial screen has a number of buttons along the bottom of the screen. Their functionality is detailed below.

### Centroid of a Triangle Explorer

Move the vertices of  $\triangle ABC$  to explore how its three medians are related.



Line segments AD, BE, and CF are all medians of  $\triangle ABC$ , since they each connect a vertex to the midpoint of the side opposite that vertex.

The point at which the medians intersect is called the centroid of the triangle.

REPLAY TOOLS AUDIO NEXT 3 of 13 MENU

Use this button to....

... replay the current screen.

...provides access to a calculator, glossary and journal, as well as an option to play all audio automatically.

... play the audio for most recently displayed text.

... display the next step of this screen.

...return to the previous screen.

... move to the next screen.

... exit this part of the software.

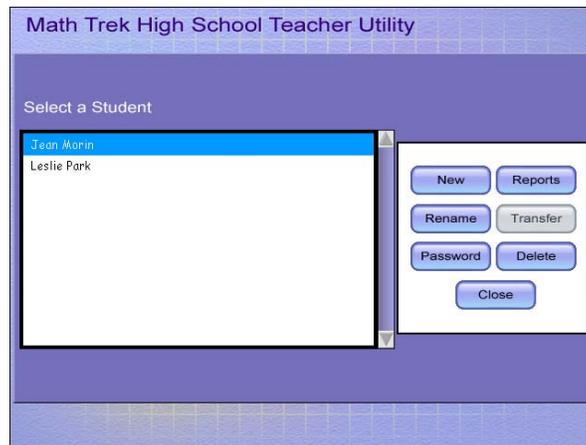
## TEACHER UTILITY

### *About the Teacher Utility*

The Teacher Utility is a student tracking and teacher management system. It is used to create and manage classes, set up student logins and view student activity and achievement.

### *Accessing the Teacher Utility*

To access the Teacher Utility, launch Math Trek then click on the Teacher button on the login screen. Enter the teacher password, **drowssap**.



### *Managing Classes*

The Math Trek Teacher Utility main menu screen will appear, listing all of the Math Trek classes.

- **To add a new class**, click the **New** button.
- **To delete a class**, select the class to delete then click the **Delete** button.
- **To rename a class**, select the class to rename then click the **Rename** button.
- **To create or change a class password**, select the class, then click the **Rename** button.
- **To see and manage the records for a particular class and its students**, select the class, and then click the **Open** button. (See the following section, Managing Students, for details.)
- **To leave the management system**, click the **Close** button.

### *Managing Students*

To create and manage student logins and view student activity and achievement, log in as a teacher, select a class on the Teacher Utility main menu screen, then click the **Open** button. A Math Trek Class menu screen will appear, listing all of the students that have been created in the selected class.

- **To add a new student**, click the **New** button. Enter the student's name and password.
- **To add several new students from a text file**, click the **Import** button, find and select the file containing the student names, then click the **Open** button.
- **To delete a student**, select the student to delete, then click the **Delete** button.

- **To rename a student**, select the student to rename, then click the **Rename** button.
- **To transfer students to a different class**, click the **Transfer** button. Select the class you are transferring students to, then click **OK** button. Drag and drop the students to be transferred from the source class on the left to the destination class on the right. After moving all the students you wish to transfer, click the **Transfer** button.
- **To create or change a student password**, select the student, then click the **Rename** button.
- **To view activity and achievement records for a student**, select the student, then click the **Reports** button. (See the following section, **Viewing any Student's Results and Activity as a Teacher**, for details)
- **To go back to the Teacher Utility main menu screen**, click the **Close** button.

### *Viewing any Student's Results and Activity as a Teacher*

The Teacher Utility's Tracking System provides a record of each student's test results and a history of their activity with the software.

To view a record of any student's test results and a history of their activity with the software, log in as a teacher, select a class on the Math Trek Teacher Utility main menu screen, then click the **Open** button. Next, select a student on the Math Trek Class menu screen, then click the **Reports** button. The Math Trek Student Reports menu screen will appear. Click either the **Quiz Results** or **Activity Report** buttons.

**Math Trek High School Reports**

**Class:** Sample Class  
**Student:** Jean Marin

**Select the modules and then the type of report.**

**Modules**

<input checked="" type="checkbox"/> Polynomials	<input checked="" type="checkbox"/> Numbers and Exponents	<input checked="" type="checkbox"/> Linear Systems
<input checked="" type="checkbox"/> Factoring	<input checked="" type="checkbox"/> Linear Functions	<input checked="" type="checkbox"/> Linear Inequalities
<input checked="" type="checkbox"/> Functions	<input checked="" type="checkbox"/> Geometric Relationships	<input checked="" type="checkbox"/> Quadratic Equations
<input checked="" type="checkbox"/> Equations	<input checked="" type="checkbox"/> Statistical Relationships	<input checked="" type="checkbox"/> Quadratic Functions
<input checked="" type="checkbox"/> Inequalities	<input checked="" type="checkbox"/> Rational Expressions	

**Activity**

**Quiz**

**Close**

*Math Trek Student Reports Menu Screen*

### *Viewing Student Results and Activity as a Student*

As a student, you may view your own test results and activity history. Log in as a student, then click the **Your Marks** button on the main menu screen. The Math Trek Student Reports menu screen will appear. Click either the **Quiz Results** or **Activity Report** buttons.

This is an activity report for student Jean Morin. It indicates the strand, date, time and length of time spent by Jean on particular exhibits.

Section Name	Date	Time	Duration (min)
GEOMETRIC RELATIONSHIPS Triangles	Oct 2, 2007	3:20	1
STATISTICAL RELATIONSHIPS Analyzing Data	Oct 2, 2007	3:18	2

*A Student Activity Report*

### *Changing the Teacher Utility Password*

On installation, the default password is **drowssap**. Whenever you log in as a teacher, you may change the password so that it is unique to you. Follow these steps:

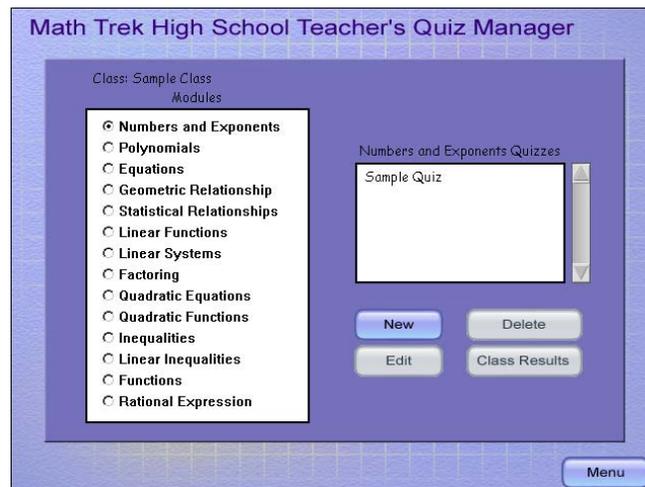
- Click on the **Teacher** button on the Login screen.
- Click the **Change** button.
- Enter the current password.
- Enter the new password in the space provided.
- Verify the new password (retype the password).
- Click the **OK** button.
- Record the password somewhere in writing in case it is forgotten.

### *Quizzes*

Each section contains a Quiz topic. After selecting this option, the student has three choices available.

1. Practice: Students select the questions for practice. Each question is scored with a show answer and an Explain feature available for incorrect answers.

2. Sample Quiz: A set number of questions is provided; however, the values in the questions are randomized. Therefore, the sample quiz can be retaken. Student scores are tracked.
3. Teacher Quiz: The teacher must pre-select the questions and save a quiz before students can access a Teacher Quiz. The values in the questions are randomized. Student scores are tracked.



*Teacher Quiz Screen*