Maths Remedial Tutor

Math Remedial Tutor

Used for FET College – NC (V) Level 2 & Remedial

This quality course engages learner interest with its informative and rich presentation and demonstration of Mathematics making concepts easy to understand.

This course will give the learner a simple explanation that can be viewed and reviewed to increase understanding. Exercise Sheets follow the lesson to give the learner an opportunity to test their knowledge and understanding.
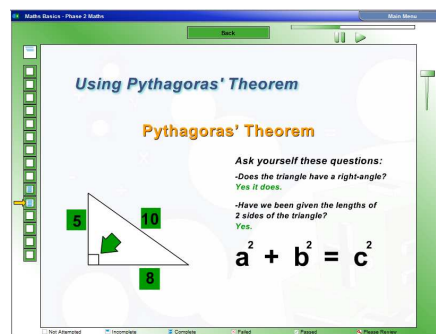
For the Lecturer

- Enjoy unique Math activities while exploring with your learners.
- Excite and motivate bored or fearful learners.

- Expand your teaching comfort zone.
- Simplify the educator's task.
- **Exercise sheets included**. (Paper)

For the Learner

- This course will help learners who may be performing two or more years below grade level with Maths.
- Support learners in delivering the content to meet the Maths standards.

Specific Benefits to e-Learning

- Let you move at your own pace.
- Provide you with additional review (if necessary).

- Let you know how well you are doing.

Topics Covered

Numbers

- Order of Operations
- Prime and Composite Numbers
- Powers of 10
- Exercise summary
- Challenge Me!

Decimals

- Summing (Adding) Decimals
- Ordering Decimals
- EXERCISE SUMMARY
- Challenge Me!

Shapes

- Polygons
- Axial Symmetry
- Types of Triangles
- Solids
- Planes of Symmetry
- EXERCISE SUMMARY
- Challenge Me!

Cartesian Plane

- Plot Points in a Quadrant
- EXERCISE SUMMARY
- Challenge Me!
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Angles

- Types of Angles
- Rotation
- Rotational Transformations
- Bisecting Lines
- EXERCISE SUMMARY
- Challenge Me!

Algebra

- Variables
- Exponents Explained
- Terms
- Expressions
- Challenge Me!
- Brackets
- Algebraic Fractions
- Linear Equations
- Exercise Summary
- Multiplying Variables

Finance

- Simple Interest
- Challenge Me!
- Examples
- Exercise Summary
- Compound Interest

Data Handling

- Introduction
- Organising Data
- The Median
- The Mean
- Exercise Summary
- The Range and Mode
- Challenge Me!

Ratio, Rate & Proportion

- Ratio
- Rate
- Challenge Me!
- EXERCISE SUMMARY
- Proportion

Pythagoras

- Pythagoras
- Examples of Pythagoras' Theorem
- Pythagoras' Theorem - When To Use It
- Pythagoras' Theorem Part 1
- Pythagoras' Theorem Part 2
- Pythagoras' Theorem Part 3
- EXERCISE SUMMARY
- Using Pythagoras' Theorem
- Challenge Me!

More Polygons

- More Polygons
- Challenge Me!
- Congruent Polygons
- EXERCISE SUMMARY
- Similar Polygons

Areas & Perimeters

- Areas & Perimeters
- What is Pi?
- Challenge Me!
- Exercise Summary

Volume & Surface Area

- Introduction
- EXERCISE SUMMARY
- Formulas
- Challenge Me!

More Cartesian Plane

- Equation of a Line
- Intersection of 2 Lines
- EXERCISE SUMMARY
- Challenge Me!

More Algebra

- Factors - Extracting Common Factors
- Factorise Quadratics
- Simultaneous Equations
- Factors - Grouping Similar Terms
- Exercise Summary
- Challenge Me!

Powerful Reporting

The LMS provides a comprehensive set of powerful real-time reports so that you can measure your investment and view learner usage.

- **Course Usage Report:** This report allows you to extract basic usage data on courses that have been accessed in the system.
- **User Usage Report:** This report shows a single user's tracking data inside a course.
- **Certificates:** Certificates of completion can be printed and customized from within the LMS.**Learner Collaboration**

A built in Forum allows learners, instructors, facilitators and educators to collaborate and discuss various issues.

· The Forum is real-time which allows users to communicate instantly.	· All topics are logged in the database for later review.
	· Administrators can delete unwanted threads.

LMS Features

Flexible

The LMS is a flexible system that allows you to:

- Fully customise the look and feel of the user interface to suit your organisation's branding.
- Multilingual (English, French and Arabic currently available). Other languages are easily added.

Fast

- **LMS** is easy to install: Server installation is a breeze and can be performed by almost any level of user.
- **LMS** is small in terms of disk space and bandwidth requirements minimising the impact on the network.
- **LMS** does not require a high end server to perform its tasks.

System Requirements

Minimum System Requirements:

Server Hardware: (Multi user - Intranet environment)

1) 1 GHz Intel or AMD equivalent for +-20 active user connections. Consider a more powerful server for more user connections.
2) 512Mb RAM.
3) 100 Mbps TCP/IP network connection (Ethernet) or +256Kbps per client connection.
4) 150Mb + 70Mb per course free Hard Disk space.

Server Software: (Multi user - Intranet environnent)

1) Windows 2000 server, XP professional, 2003 Server.
2) Open TCP/IP port 2501 and 8080
3) Internet Explorer 6 or later.

Client Hardware:

1) 500 MHz Intel Pentium 3 or AMD equivalent.
2) 256Mb RAM.
3) TCP/IP network connection +256Kbps minimum.
4) 100Mb Free Hard Disk space (Temporary Internet Files).

Client Software:

1) Windows 2000 professional, 2000 server, XP Home, XP Professional, 2003 server
2) Internet Explorer 6 or later
3) Macromedia Flash Player 8 or later (included on CD)
4) Windows Media Player 7 or later (included on CD) Windows XP has version 8 pre-installed.

Considerations

Firewall:

InfoServer uses Windows Sockets for client - server communication.
The server needs an open port (default 2501) to accept (listen) for client connections.
The client needs to be able to open a port (default 2501) to the server. Please configure firewalls appropriately.

Installation:

You need to logon as an administrator to run the installation file.

Macromedia Flash Player 8:

A player auto detection script runs when accessing the content. After installing or updating the Flash Player it is important to CLOSE all open Internet Explorer windows.

Windows Media Player 7:

A player auto detection script runs when accessing the content. After installing or updating the Window Media Player it is important to RESTART the computer.

SCORM 1.2

The LMS supports SCORM version 1.2.
API conforms to RTE level 3. All Mandatory and optional data elements supported.

Contact NetLearn Update cc

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