

Online Maths Lab - Unique for each College/School



Brochure



Setter Grades, Individual Attention: This Online Maths Lab works alongside Face2Face Classroom Teaching. It helps teachers reach a larger group of learners with more individual attention, producing better grades. Automated, takes pressure off the teacher and keeps parents in the loop. Anytime anywhere. Multiple Media Responsive layout, Desktop, Laptop, Tablet, Mobile.



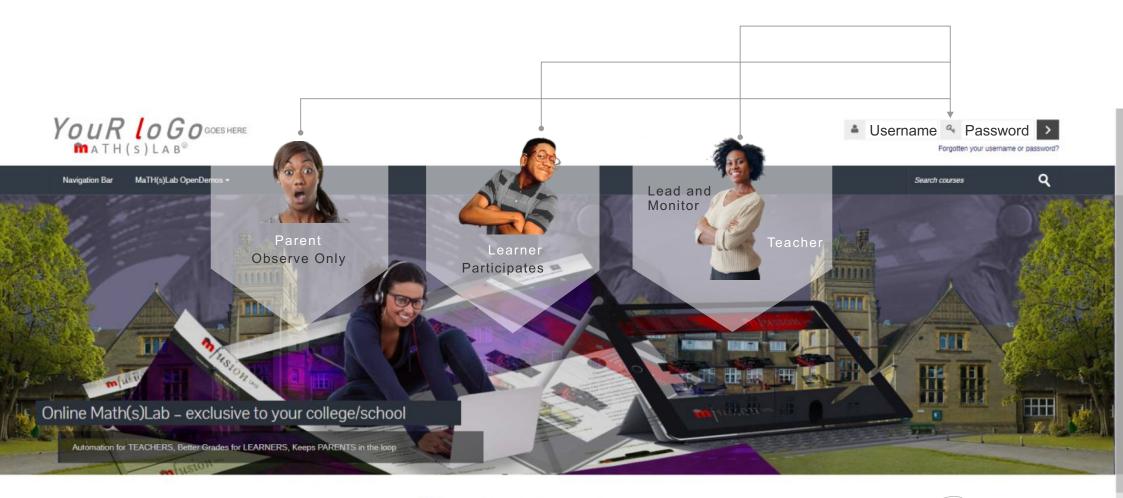
Maths Grade 10-12: CAPS and IEB aligned. 2500 Short format Math exercises. 500 Exam and Test preparation assignment exercises. Automated assignments. >300 Hours of Video Tutorials



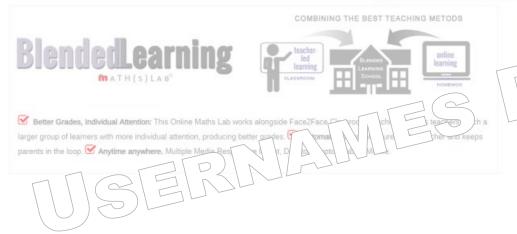
Maths Level N1-N6 : NATED. 2200 Short format Math exercises. 400 Exam and Test preparation assignment exercises. Automated assignments. >400 Hours of Video Tutorials



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DISTINGUISH YOUR COLLECE/SCHOOL

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Example of a Grade Category Menu with its Syllabus Sections -

N3 - Factors and Fractions 1	٤
N3 - Exponents, Surds and Logarithms 2	٤
N3 - Equations, Word Problems and Manipulations 3	٤
N3 - Geometry of Co-ordinates 4	<u>٩</u>
N3 - Algebraic Graphs 5	٤
N3 - Differential Calculus 6	٤
N3 - Trigonometry 7	٤



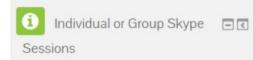
Maths N3: Factors and Fractions, Exponents Surds Logarithms, Equations Word Problems and Manipulations, Geometry of Co-ordinates, Algebraic Graphs, Differential Calculus, Trigonometry

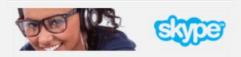




Learner Guide

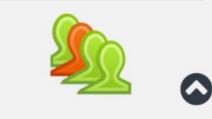
Exam Papers





Automatically linked by Classroom: Teacher to Student, Student to Student, Teacher to Parent



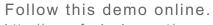




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N3 - Trigonometry:



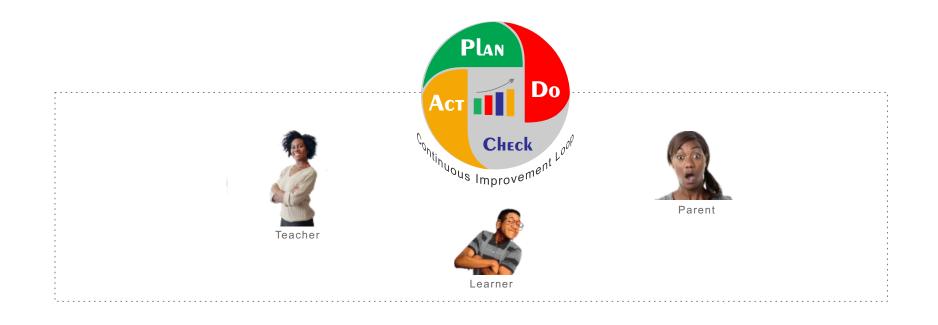
http://www.fusionlms.net/course/view.php?id=90

Each syllabus section opens up into 6 components	3D - Digital Books
► Open all ▼Close all Instructions: Clicking on the section name will show / hide the section.	
Short-Question Format – Exercises with all-inclusive feedback to learners and teachers	Lorem ipsum dolor sit a consetetur.
2 Short-Question Format – Automated Previous Grade Recap with all-inclusive feedback	
3 Long-Question Format - Automated Exam Paper Based Assignments	Home Current course
Video Tutorials – In The Cloud with Learner Participation Tracking	<ul> <li>N3 - Trigonometry</li> <li>Participants</li> <li>Courses</li> </ul>
5 Skype, Live Chat, Course Feedback, Class Participation	Search forums
6 Teacher's Toolbox - Only Visible to Teachers	
	(No news has been poster

Face2Face Classro

Individual or Group

Automatically linked by Student, Teacher to Pa









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N3 - Trigonometry: Exact Values, Exact Values in The First Quadrant, Exact Values in Other Quadrants, Trigonometric Equations, Identities, Solving Triangles, Right-Angled Triangles, The Sine Rule, The Cosine Rule, The Area of a Triangle, Periodic Functions, Superimposing Graphs, Rotating Vectors, Superimposing Graphs.









Automatically linked by Classroom: Teacher to Student, Student to Student, Teacher to Parent

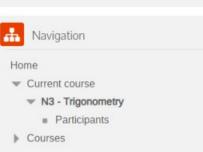








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Open all V Close all

Instructions: Clicking on the section name will show / hide the section.

Short-Question Format – Exercises with all-inclusive feedback to learners and teachers 🗲

#### TEACHER CUSTOMISABLE

Short-Question Format Exercises, 24 Hours / 7 Days a Week

Short-Question Format Exercises. Proficiency in math require daily practice with immediate feedback to both teachers and learners. This system provides exercises online 24/7 with automatic feedback to a large group of learners, individually.

Teachers can compile short-format exercises from the question bank and customise multiple lessons for learners. They may schedule a series of exercises to show or hide on a timeline, or student grade basis. Or just adhoc. (Sample exercise below)

N3 - Trigonometry. Sample Exercise



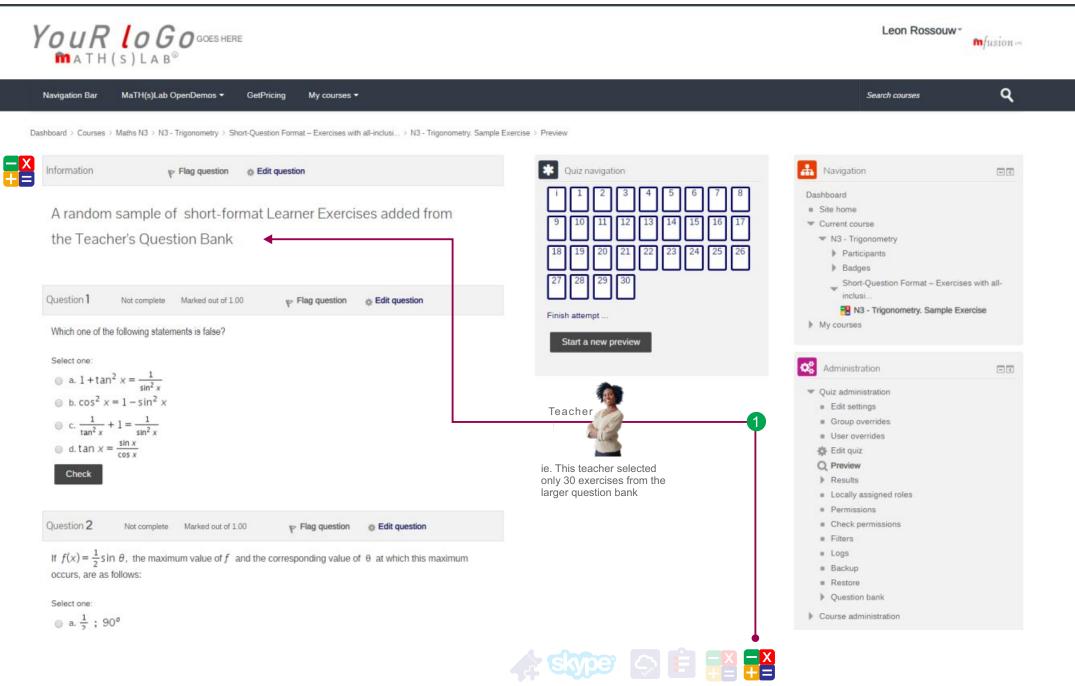
Teacher's Question Bank: A reservoir of Short-

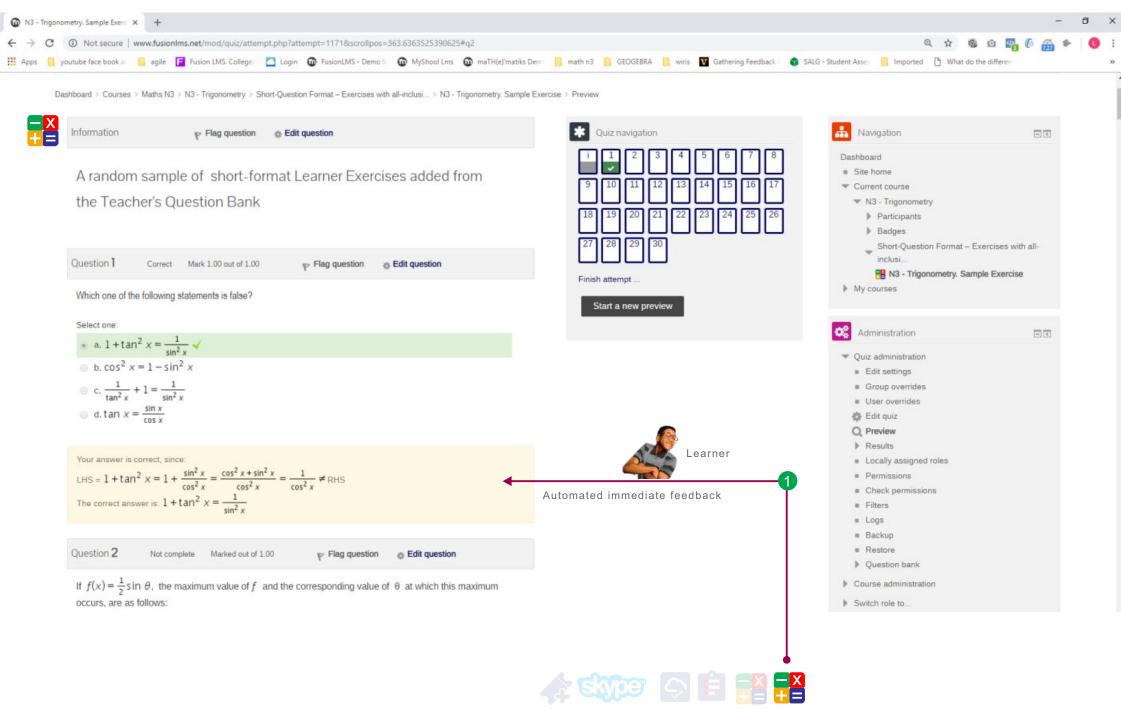
Format Exercises to select from or add your

own. Teachers access the question bank

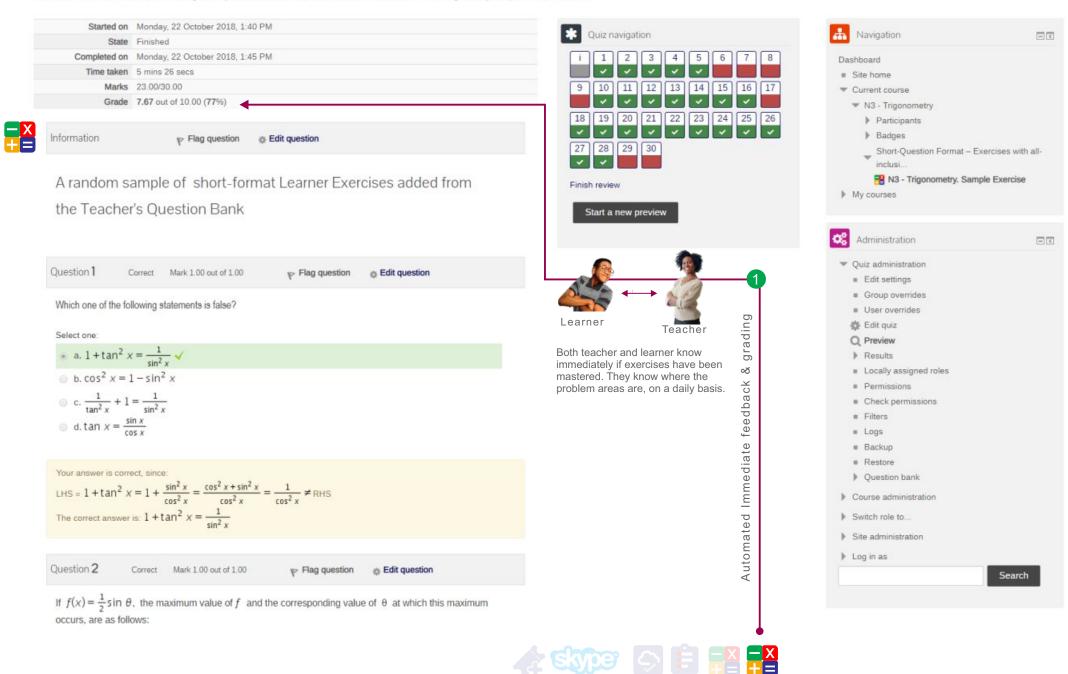
through the quiz editing menu.

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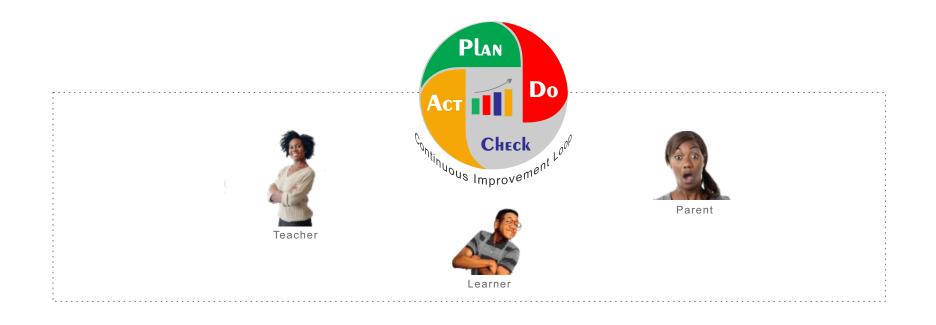




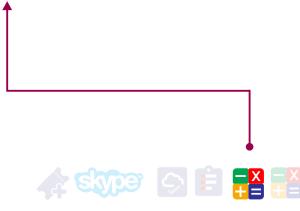
Dashboard > Courses > Maths N3 - N3 - Trigonometry > Short-Question Format – Exercises with all-inclusi... > N3 - Trigonometry. Sample Exercise > Preview

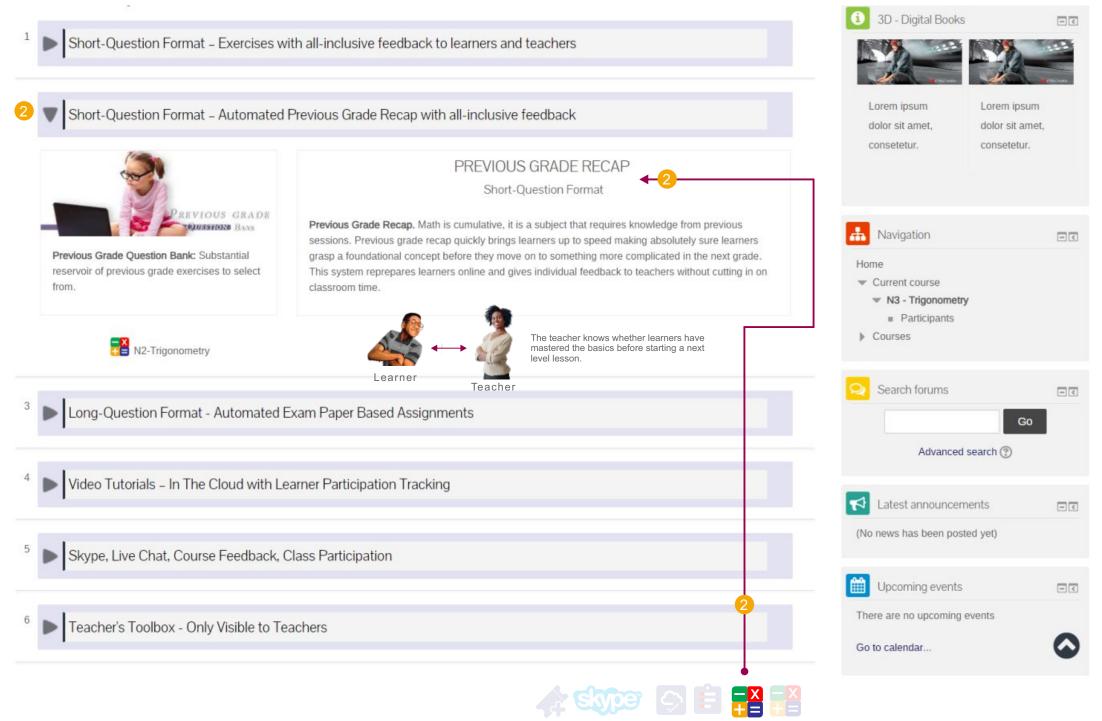


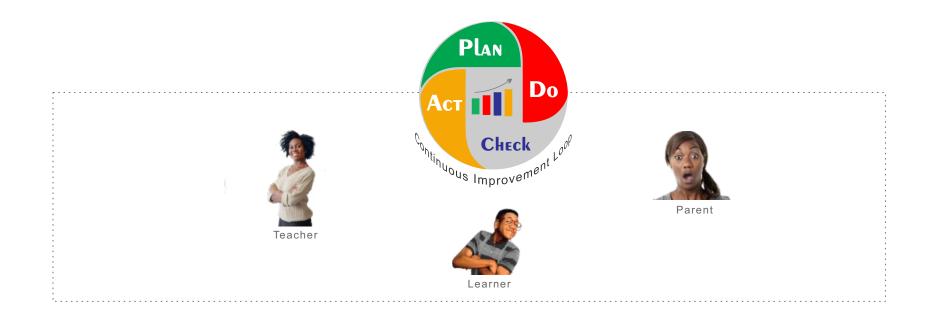
<sup>6</sup> Components of each syllabus section



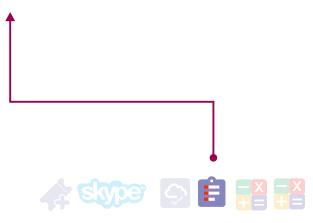
2 Short-Question Format – Automated Previous Grade Recap with all-inclusive feedback

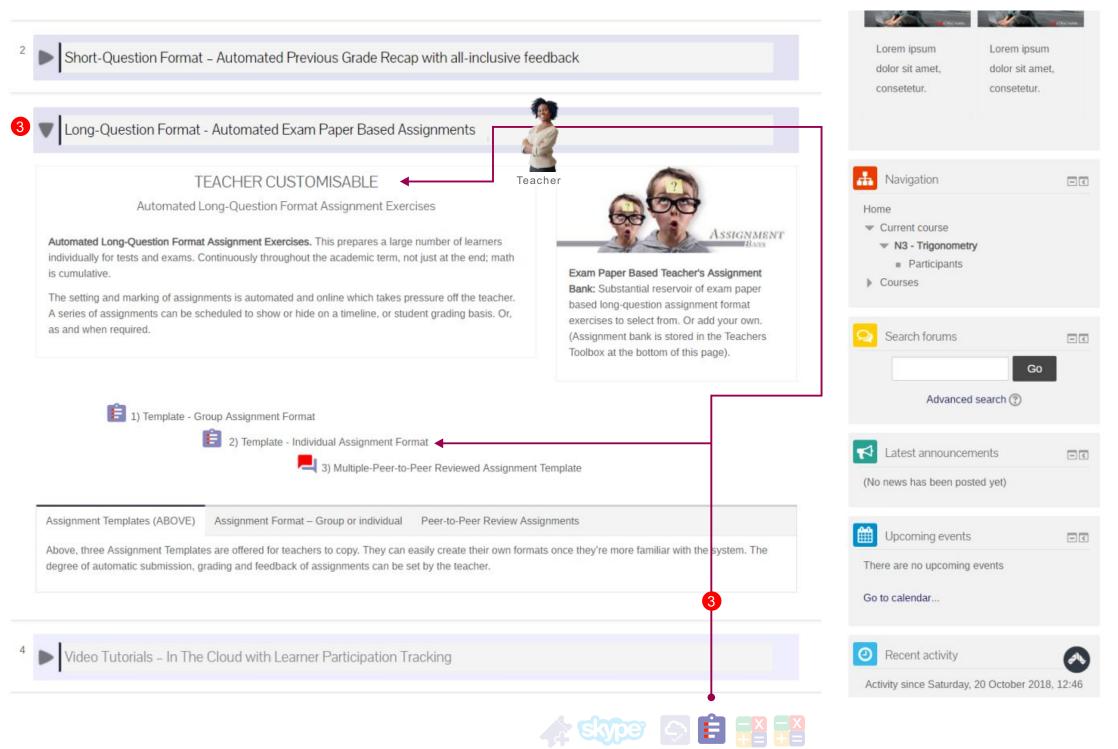


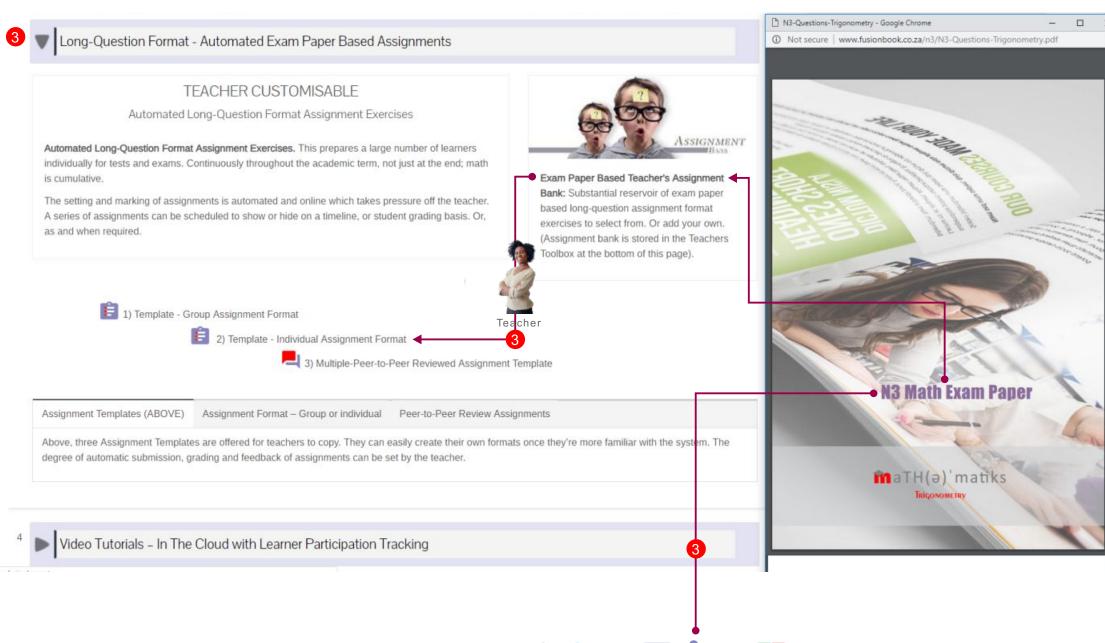




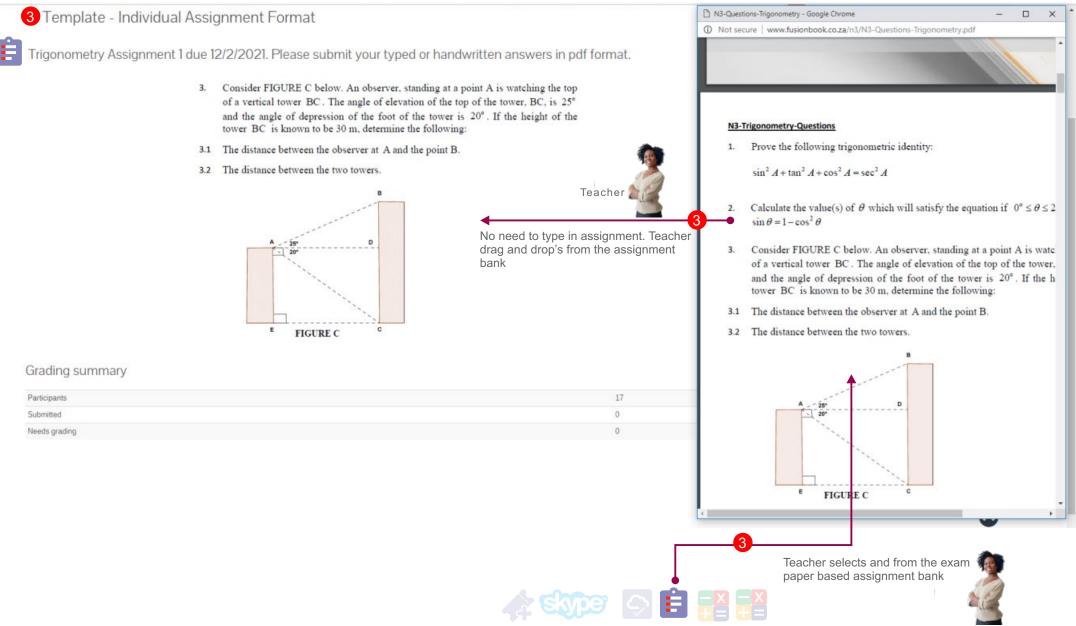




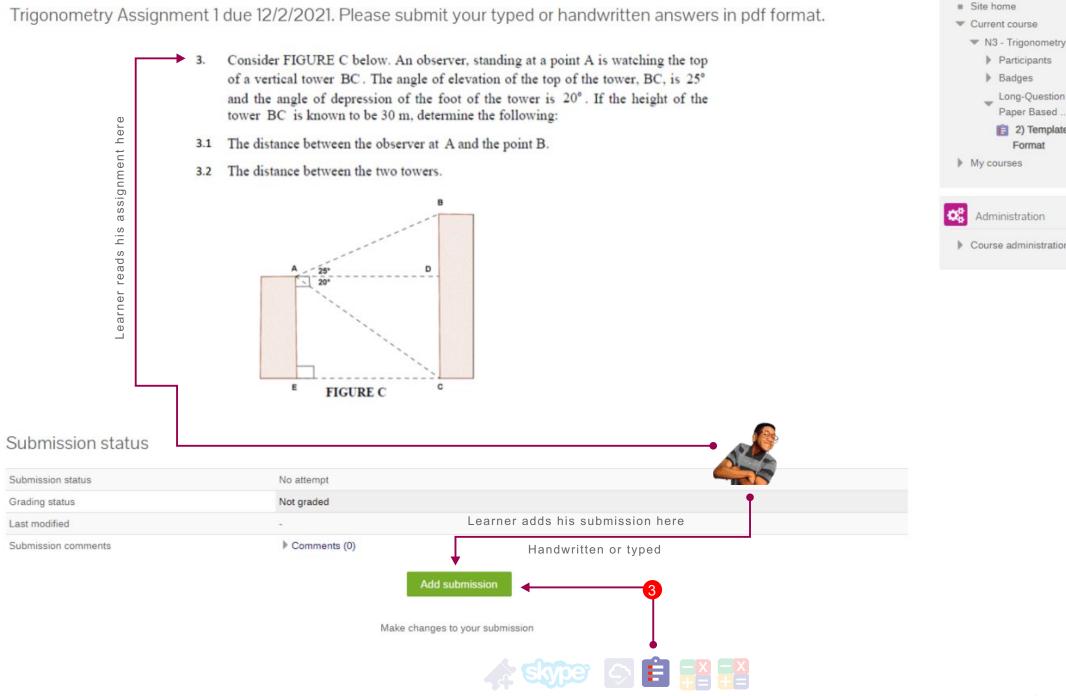








#### Trigonometry Assignment 1 due 12/2/2021. Please submit your typed or handwritten answers in pdf format.

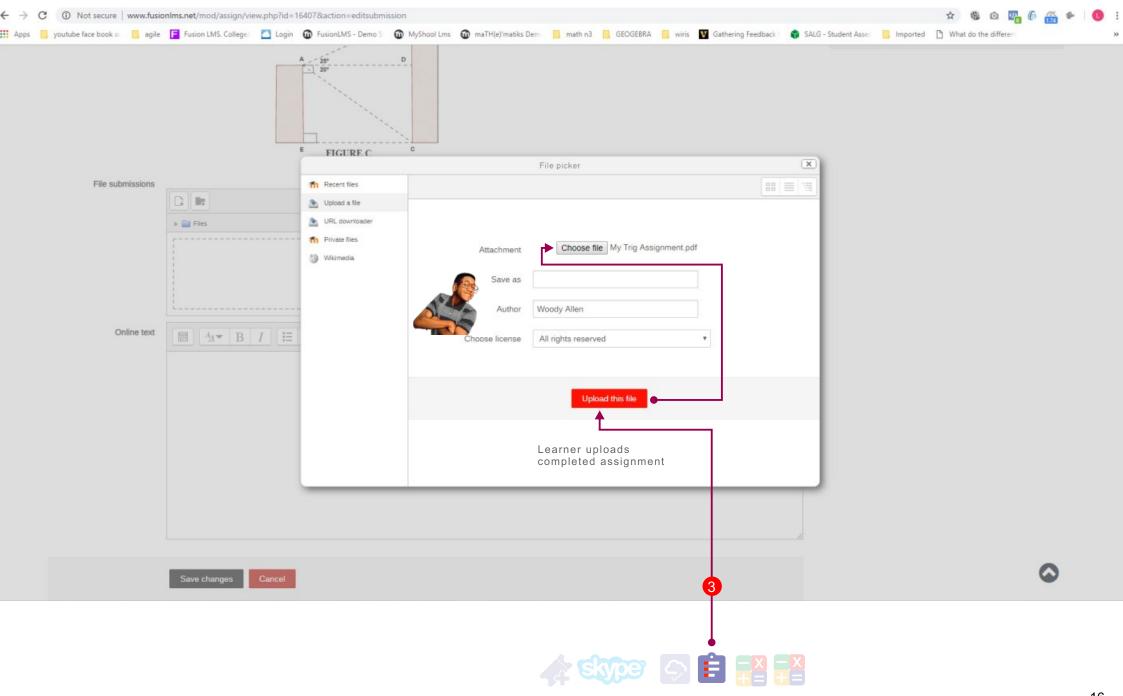


6 Components of each syllabus section

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Navigation

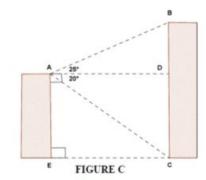
Dashboard



### 2) Template - Individual Assignment Format

F Trigonometry Assignment 1 due 12/2/2021. Please submit your typed or handwritten answers in pdf format.

- 3. Consider FIGURE C below. An observer, standing at a point A is watching the top of a vertical tower BC. The angle of elevation of the top of the tower, BC, is 25° and the angle of depression of the foot of the tower is 20°. If the height of the tower BC is known to be 30 m, determine the following:
- 3.1 The distance between the observer at A and the point B.
- 3.2 The distance between the two towers.

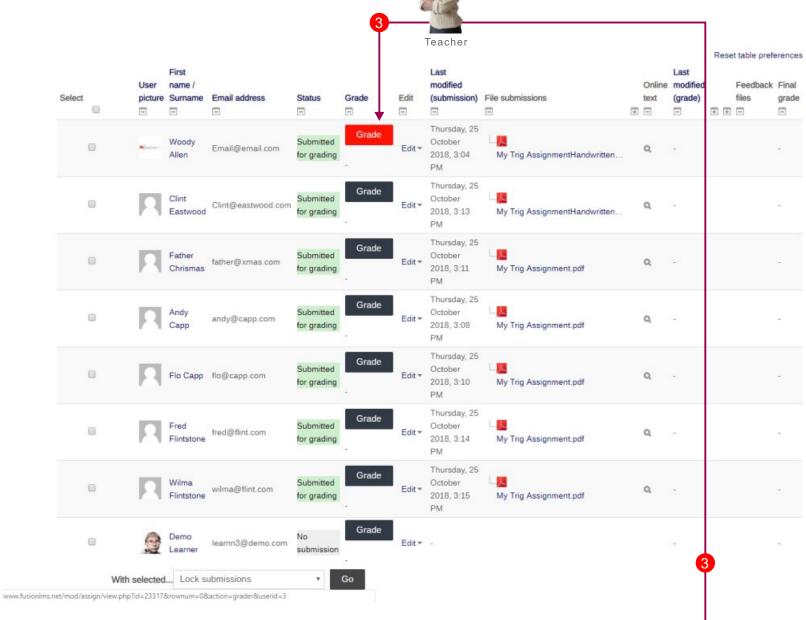


#### Grading summary

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#### -Navigation - -Dashboard Site home Turrent course ▼ N3 - Trigonometry Participants ▶ Badges Long-Question Format - Automated Exam Paper Based 2) Template - Individual Assignment Format My courses OC. Administration - 3 Assignment administration Edit settings Locally assigned roles Permissions Check permissions # Filters Logs Backup Restore Advanced grading View gradebook View all submissions I submissions tration Search

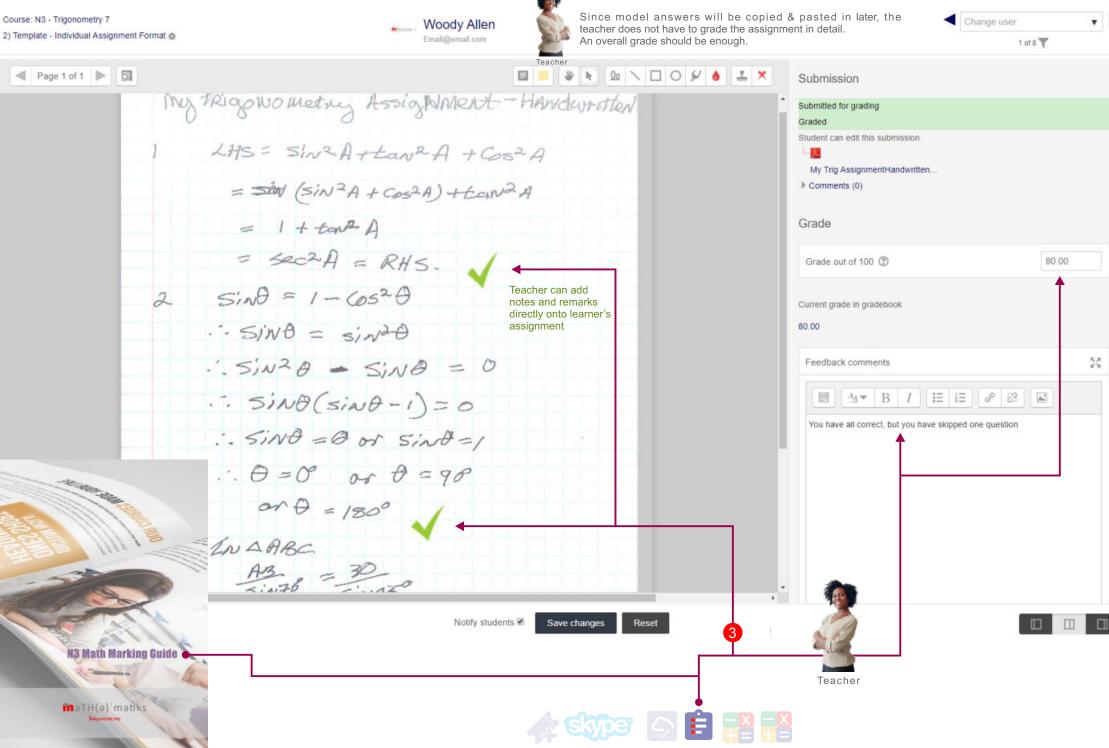
Since model answers will be copied & pasted in later, the teacher does not have to grade the assignment in detail. An overall grade should be enough.

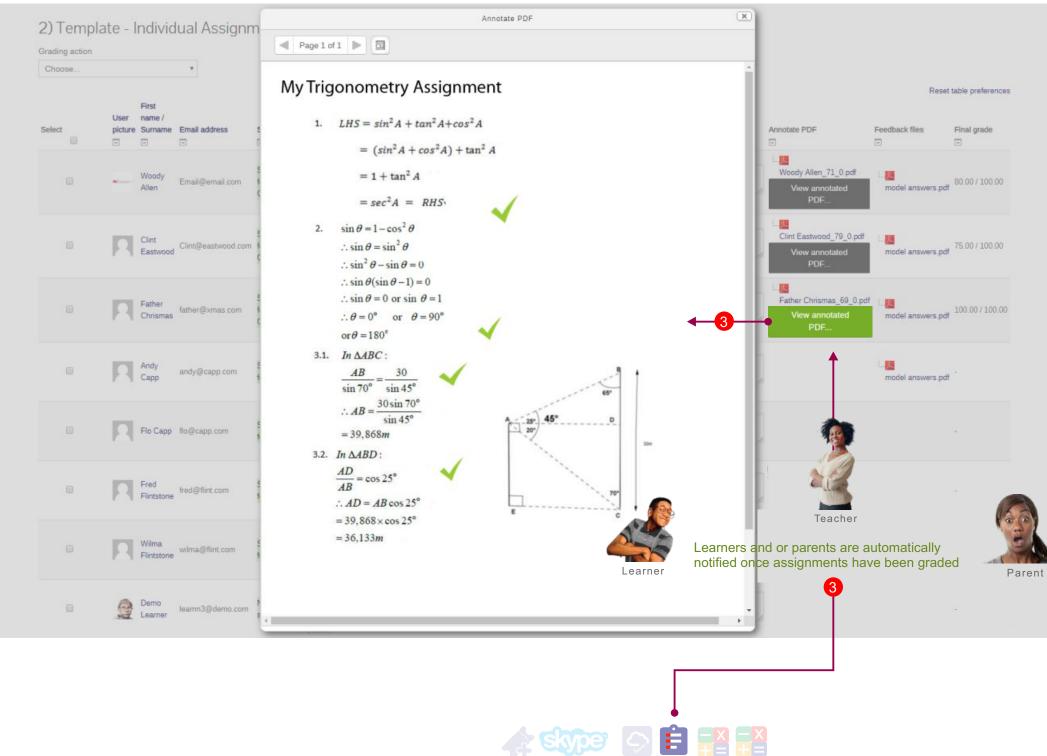


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6 Components of each syllabus section

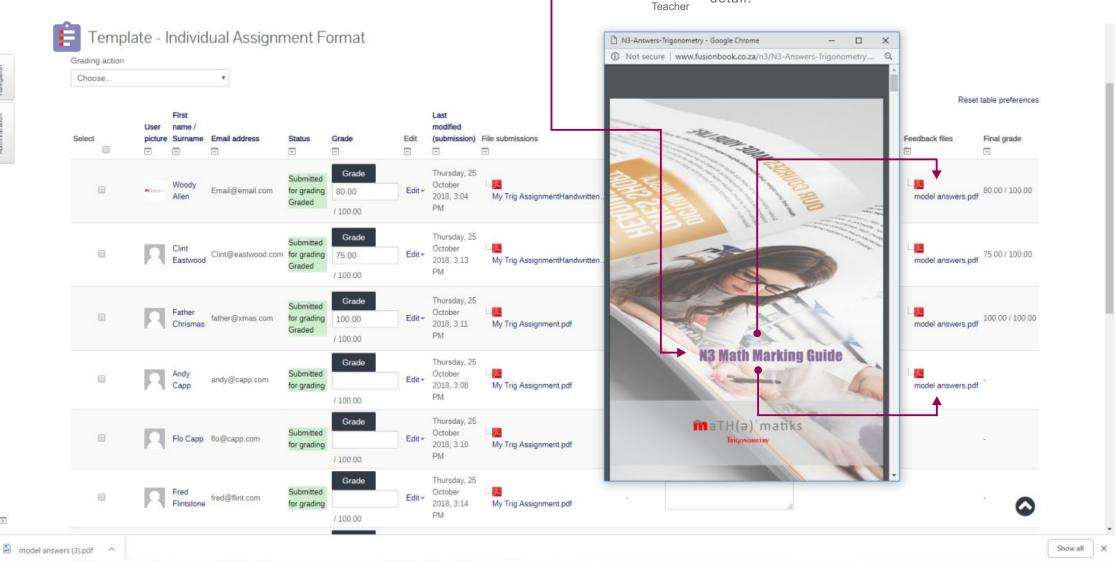
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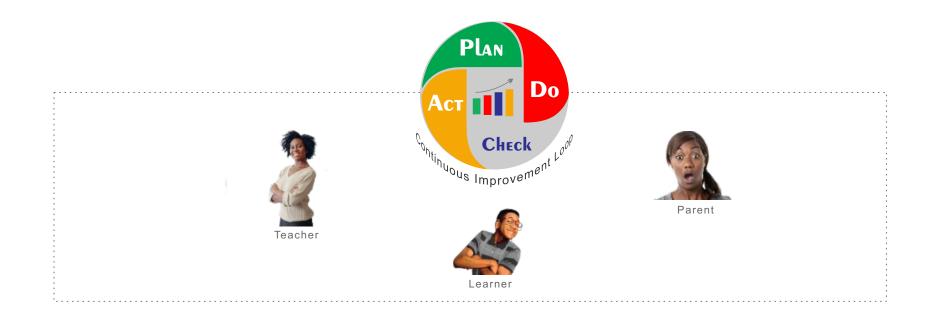
Model Answers are copied & pasted by the Teacher from the exam paper based assignment bank, hosted in the Teacher's Toolbox.

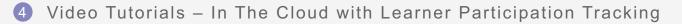
So teachers do not have to grade assignments in detail.





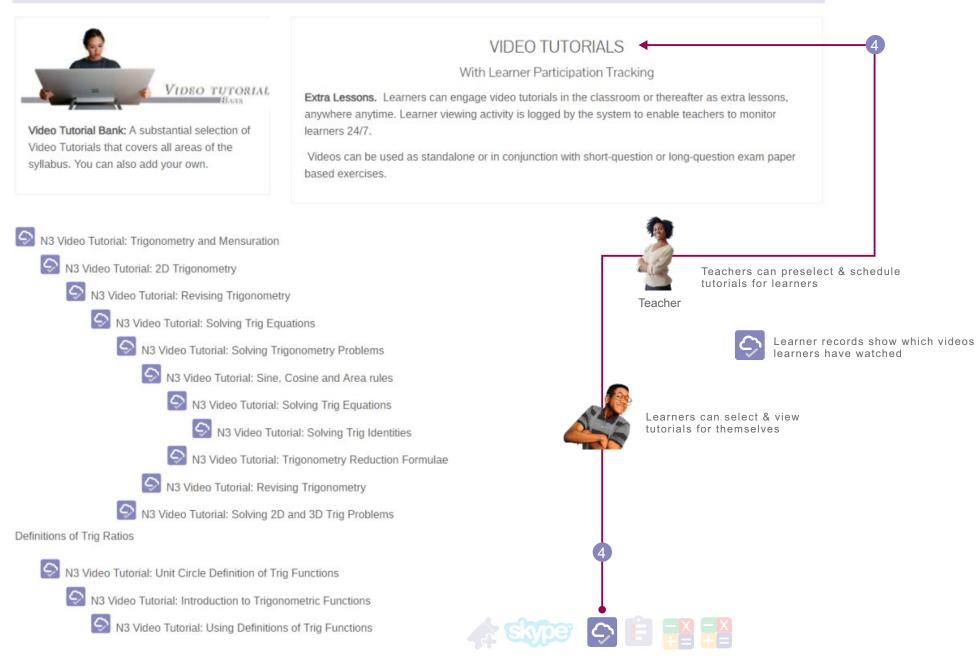
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### Video Tutorials – In The Cloud with Learner Participation Tracking



CAST Diagram

N3 Video Tutorial: CAST Diagram Part 1 N3 Video Tutorial: CAST Rule of Trigonometry N3 Video Tutorial: Trigonometry Basic -- CAST Rule Simplify expressions / Trig-identities N3 Video Tutorial: Simplifying Trigonometric Expressions S N3 Video Tutorial: Simplifying Trigonometric Expressions Involving Fractions N3 Video Tutorial: Simplifying Trigonometric Expressions Using Identities Solving Trig equations N3 Video Tutorial: Using the Quadrant Rule to solve trig. equations N3 Video Tutorial: Solving Trigonometric Equations N3 Video Tutorial: Trigonometry : Solving Equations using identities Solving Oblique Triangles N3 Video Tutorial: Law of Sines & Cosines - SAA, ASA, SSA, SSS One, Two, or No Solution Solving Oblique Triangles S N3 Video Tutorial: Solving Oblique Triangle S N3 Video Tutorial: Oblique Triangles Law of Sines Area of Oblique Triangles N3 Video Tutorial: Area of oblique triangles SAS SSS Heron's Formula S N3 Video Tutorial: Area Of A Non-Right Angle Triangle N3 Video Tutorial: Area of a Triangle Using Trigonometry Sin and Cos Graphs N3 Video Tutorial: Trigonometry Graphs and Equations N3 Video Tutorial: Trigonometry - Sin and Cos Graphs



Flipped Classroom Learning. Learners can view videos before class.Teachers can then focus the classroom on problem areas

Learner



Teacher





Navigation Bar MaTH(s)Lab OpenDemos 

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### N3 Video Tutorial: Area Of A Non-Right Angle Triangle



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6 Components of each syllabus section

Leon Rossouw\*

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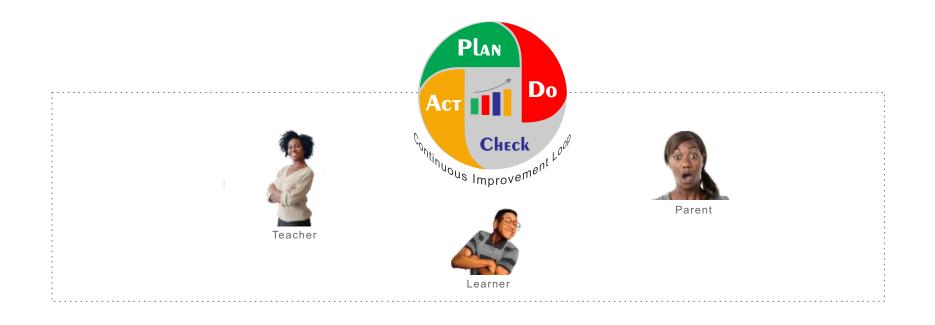
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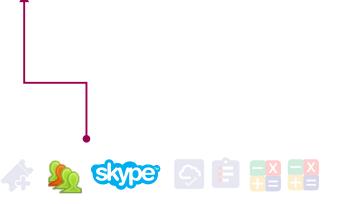
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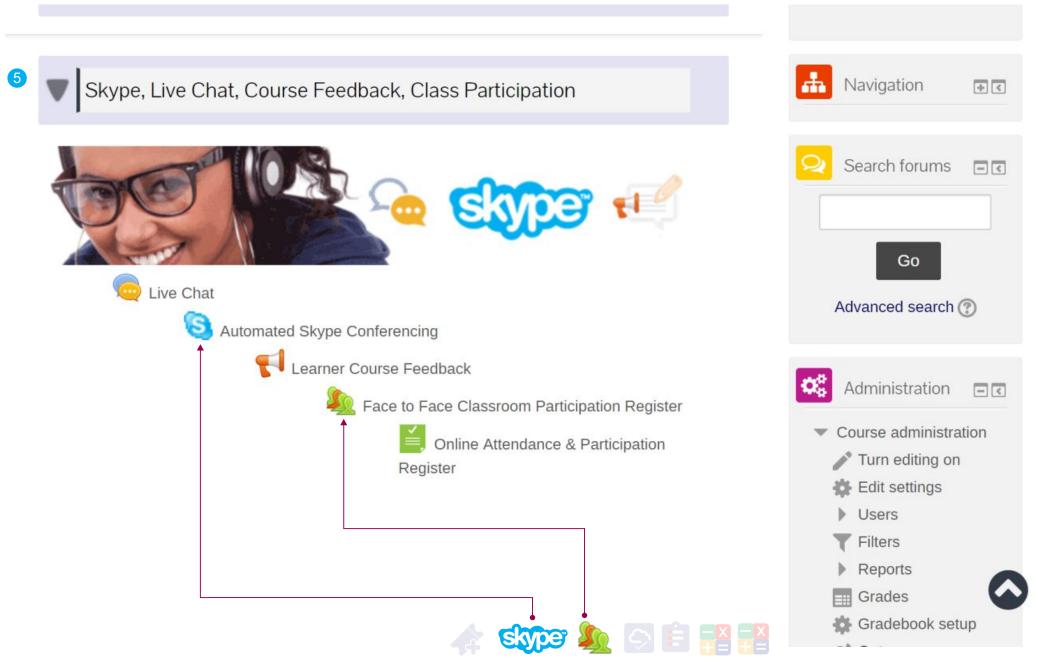
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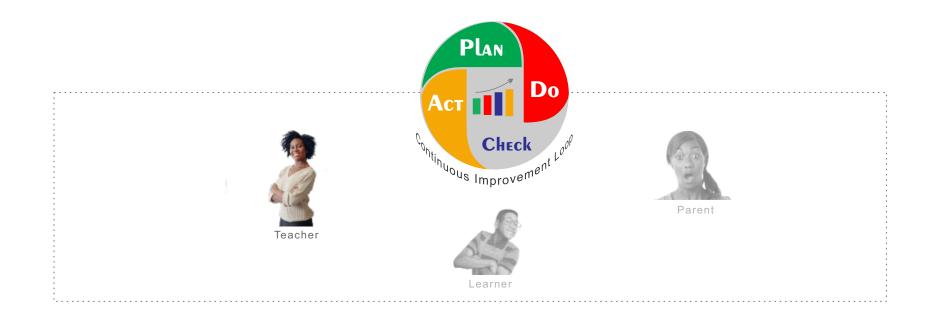
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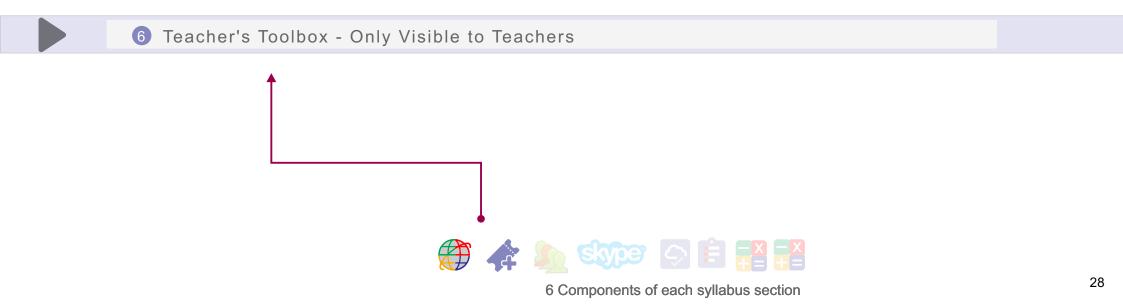


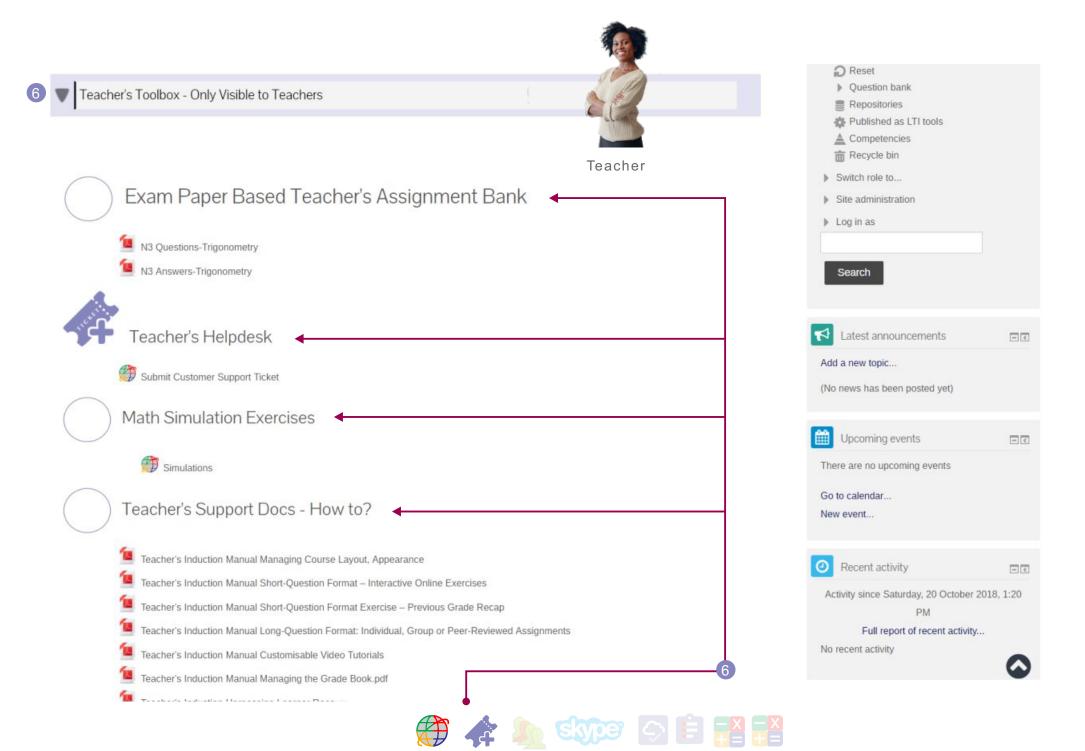


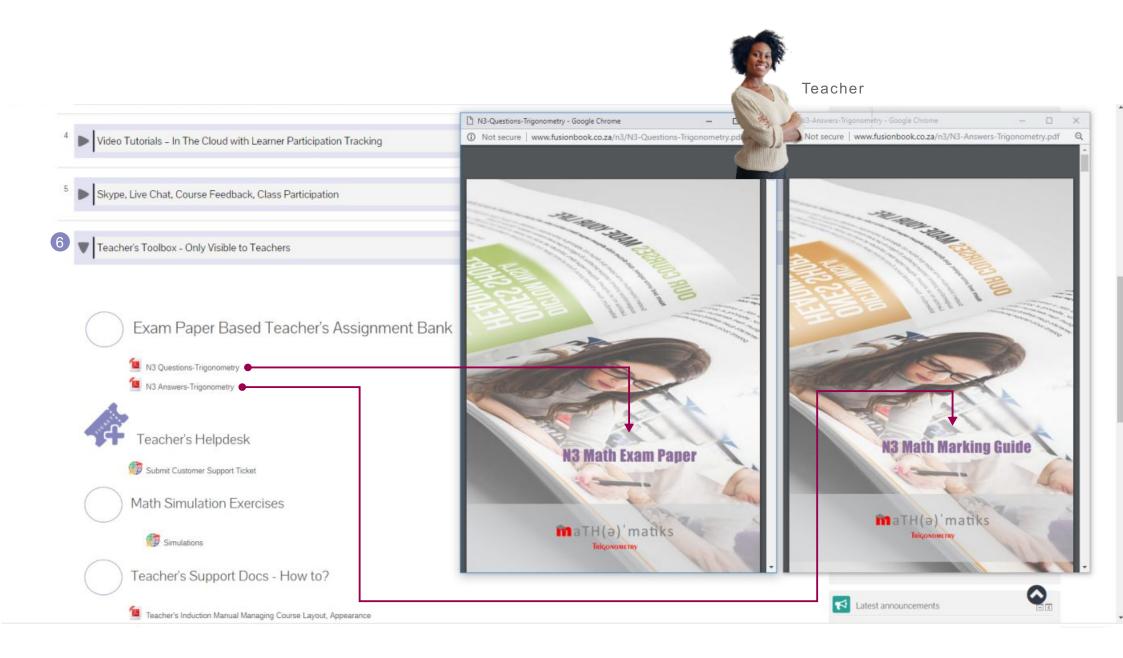




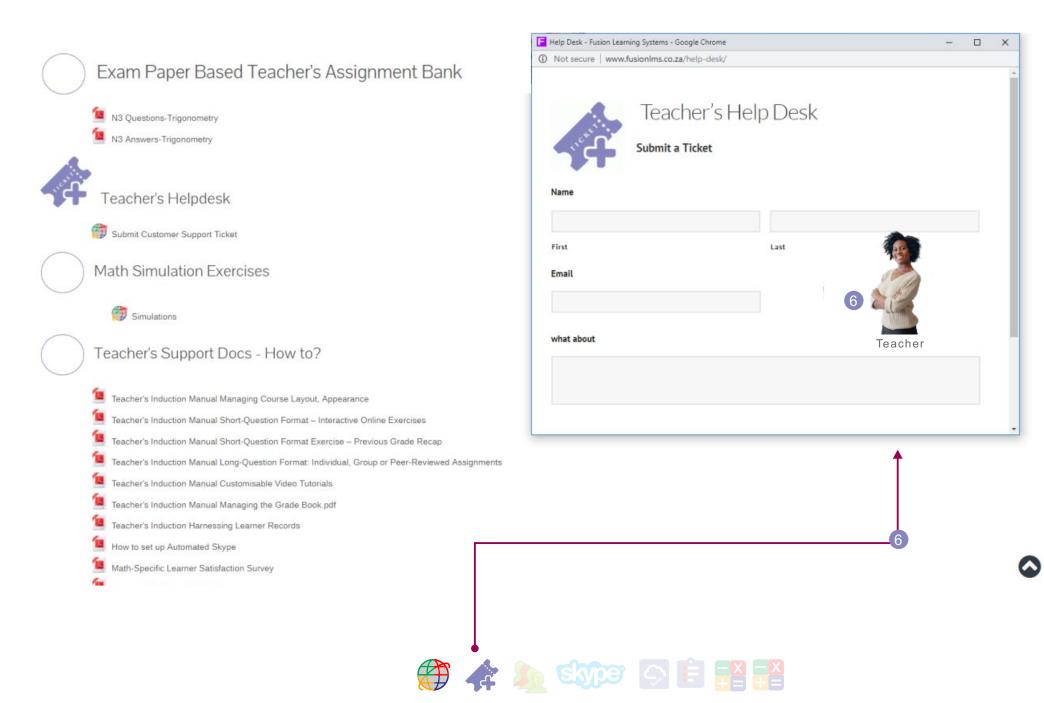




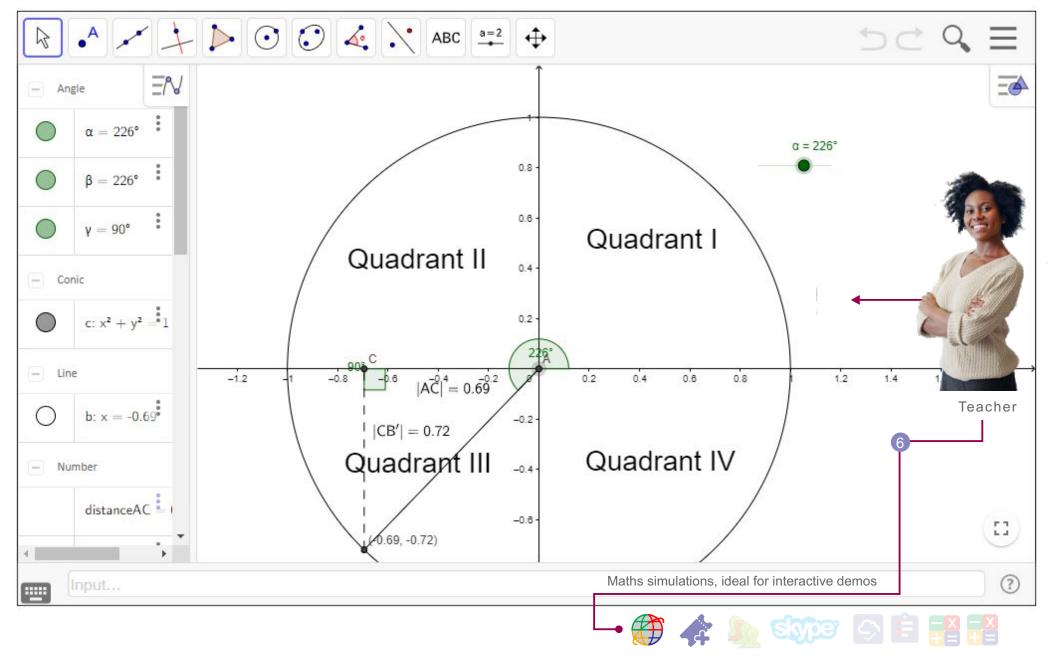








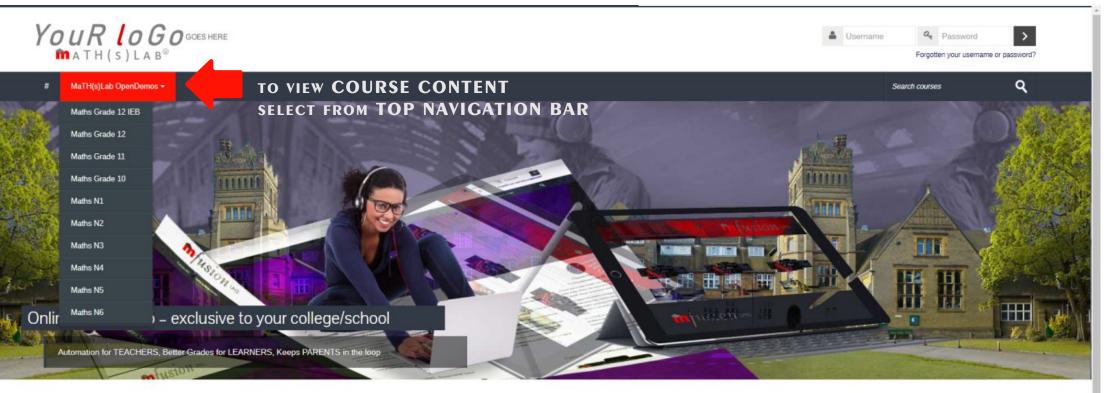
# Trigonometry Simulation Exercises



Brochure

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**ONLINE COURSE DEMO** 

# Online Math(s)Lab - exclusive to your college/school

Automation for TEACHERS, Better Grades for LEARNERS, Keeps PARENTS in the loop

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