

IGCSE Math Foundation Module for year 8 students

As the Year 8 students transit into Key Stage 4 wherein they will be studying the IGCSE two year programme, a two week IGCSE Math Foundation Module was conducted for them at the start of the summer break from May 17th to May 28th. During their study of the Maths syllabus, IGCSE students develop a feel for quantity, patterns and relationships and develop their reasoning, problem-solving and analytical skills in a variety of abstract and real-life contexts. In order to guide them in developing the pre requisite skills for mathematics, topics covered in Year 8 which are required for Year 9 were revisited to strengthen Mathematical skills and understanding. Cambridge Checkpoint questions were discussed & students were familiarized with IGCSE exam style questions.

A screenshot of a digital whiteboard interface. The board contains several algebraic multiplication problems and their solutions:

- Problem 6: $(x-6)(x+2) = x^2 + 2x - 6x - 12 = x^2 - 4x - 12$
- Problem 7: $(x-5)(x-4) = x^2 - 4x - 5x + 20 = x^2 - 9x + 20$
- Problem 8: $(y+6)(y+5) = y^2 + 11y + 30$
- Problem 9: $(2x+1)(x+2) = 2x^2 + 4x + x + 2 = 2x^2 + 5x + 2$
- Problem 10: $(y+6)(3y+2) = 3y^2 + 2y + 18y + 12 = 3y^2 + 20y + 12$ (labeled "Nancy")
- Problem 11: $(2x+1)(2x+1) = 4x^2 + 2x + 2x + 1 = 4x^2 + 4x + 1$ (labeled "Prish")

The whiteboard also shows a sidebar with tools like Select, Dictionary, Text to Speech, Markup, Comment, Text Box, Equation, Drawing, Shapes, Eraser, Add Media, and Signature. The page number "Page 1" is visible at the bottom.

A screenshot of a digital whiteboard interface showing a geometry problem and a student's video feed.

The whiteboard content includes:

- Problem 11: "The diagram shows a pair of parallel lines, CD and AC ." (Note: The diagram shows two horizontal parallel lines, CD and AC , intersected by a transversal line AB . Angles A and C are marked at the intersections.)
- Text: "AB is a straight line that crosses CD at A and AC at C ." (Note: The diagram shows a transversal line AB intersecting parallel lines CD and AC at points A and C respectively.)
- Text: "On the diagram, select with the ruler & the angle that is alternate to angle C ." and "Select with the lines C the angle that is corresponding to angle C ."

On the right side, there is a video feed of a student wearing glasses and a red shirt. The video feed has a "PIC-COLLAGE" watermark at the bottom.