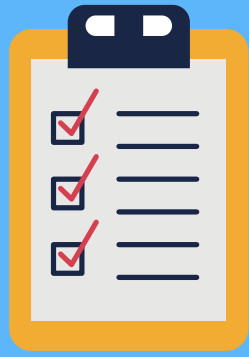# Pre-C6th Home Study

UNIVERSAL PROJECT FOR YEAR 11 HOME LEARNING - MATHS

THE BRIEF

STEP 01

YOU ARE GOING TO REVISIT SOME OF THE KEY IDEAS FROM GCSE MATHS.
A GOOD UNSTANDING OF THESE TOPICS ARE ESSENTIAL FOR A GOOD FOUNDATION WHEN STARTING A-LEVEL MATHS

WHAT TO INCLUDE

STEP 02

LAWS OF INDICES
SURDS
ALGEBRAIC FRACTIONS
SOLVING EQUATIONS/INEQUALITIES
QUADRATICS – DRAWING, COMPLETING THE SQUARE
FORMULAE AND GRAPHS
TRIGONOMETRY

CREATE A QUESTION

STEP 03

WHY ARE THESE TOPICS KEY TO A LEVEL MATHS?
HOW ARE THESE TOPICS LINKED?
WHICH TOPICS LINK VERY CLOSELY TO OTHERS?
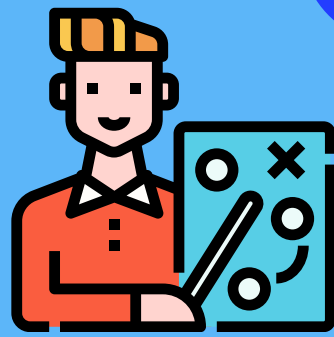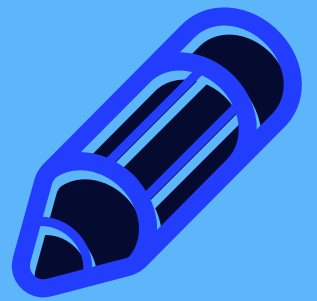CAN YOU CREATE YOUR OWN QUESTIONS BASED ON THESE TOPICS AND SOLVE?

DO YOUR RESEARCH

STEP 04

USE WEBSITES TO LOOK UP EXTENSION QUESTIONS BEYOND GCSE AND WORK THROUGH SOLUTIONS. STUDENTS STUDYING MATHS A LEVEL WILL BE SET A LEVEL PREPARATION QUESTIONS BASED IN THESE KEY TOPICS.

CREATE YOUR PRODUCT

STEP 05

DRAW A NETWORK DIAGRAM (LIKE A FLOW CHART) SHOWING THE CONNECTIONS BETWEEN ALL THE REVISION TOPICS. CAN YOU WRITE YOUR OWN A LEVEL STYLE QUESTION THAT USES AT LEAST THREE TOPICS IN THE SAME QUESTION

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