TITLE: 9TH GRADE MATH NOTES

MAIN NOTES:

- INTRODUCTION TO ALGEBRA:
 - ALGEBRAIC EXPRESSIONS
- DEFINITION: AN ALGEBRAIC EXPRESSION IS A MATHEMATICAL PHRASE CONTAINING NUMBERS, VARIABLES, AND OPERATIONS SUCH AS ADDITION, SUBTRACTION, MULTIPLICATION, AND DIVISION.
 - EXAMPLES: 3x + 5, 2y 7, $4a^2 2ab + 3b^2$
 - SOLVING EQUATIONS
 - BASIC EQUATIONS: ONE-STEP EQUATIONS, TWO-STEP EQUATIONS
 - LINEAR EQUATIONS: EQUATIONS INVOLVING VARIABLES RAISED TO THE POWER OF 1
 - QUADRATIC EQUATIONS: EQUATIONS INVOLVING VARIABLES RAISED TO THE POWER OF 2
- GEOMETRY:
 - PROPERTIES OF SHAPES
- tesale.co.uk - TRIANGLE: DEFINITIONS AND PROPERTIES OF TOULA
 - QUADRILATERALS: DEFINITIONS AND PROPERTIES OF SQUAMES, ROANGLES, PARALLELOGRAMS, TRAPEZOIDS

 - PYTHAGOREAN THEOREM
- DEFINITION: IN A RIGHT-ANGLED TRIANGLE, THE SQUARE OF THE LENGTH OF THE HYPOTENUSE IS EQUAL TO THE SUM OF THE SQUARES OF THE LENGTHS OF THE OTHER TWO SIDES.
 - fORMULA: AA2 + BA2 = (A2)
- STATISTICS AND PROBABILITY:
 - DATA ANALYSIS
 - MEAN, MEDIAN, MODE
 - RANGE AND INTERQUARTILE RANGE
 - PROBABILITY
 - DEFINITIONS: OUTCOMES, EVENTS, SAMPLE SPACE
 - PROBABILITY OF EVENTS: CALCULATING THE PROBABILITY OF SINGLE AND COMPOUND EVENTS
- FUNCTIONS AND GRAPHS: