KEY STAGE 4

· SPECIAL EFFECTS DIRECTOR

· CANCER RESEARCHER

UNIT 5
- NETS, ISOMETRIC DRAWING, AND VIEWS OF 2D SHAPES
- ANGLE PROPERTIES OF LINES AND TRIANGLES
- PERIMETER, AREA, AND VOLUME
- THE CIRCLE

UNIT 4
- COLLECTING DATA
- STATISTICAL MEASURE
- PRESENTING DATA 1
- PROBABILITY AND OUTCOMES

UNIT 3
- ALGEBRAIC NOTATION AND RULES FOR INDICES
- MANIPULATING EXPRESSIONS
- FORMULAE AND SUBSTITUTION
- CHANGING THE SUBJECT OF A FORMULA
- SOLVING LINEAR EQUATIONS AND INEQUALITIES

· ZOOLOGIST

· INTRUSION ANALYST

UNIT 1
- THE NUMBER SYSTEM
- ROUNDING, APPROXIMATING, AND ESTIMATING
- NUMBER PROPERTIES INCLUDING TRIANGULAR, SQUARE, CUBE ETC. AND REASONING, EXAMPLES, AND COUNTER EXAMPLES

UNIT 2
- FRACTIONS AND FRACTION ARITHMETIC
- PERCENTAGES AND WORKING WITH PERCENTAGES

YEAR 9

· GLACIOLOGIST

END OF YEAR EXAM

STATISTICS
- EXPLORING THE WORLD OF STATISTICS. DEVELOPING AN UNDERSTAND OF DIFFERENT AVERAGES AND WAYS TO PRESENT DATA AND HOW THEY ARE USED WITH REAL WORLD CONTEXTS.

INVESTIGATION: SQUARES AND TRIANGLES

· PIXAR ANIMATOR

· PILOT

3D SHAPES
- USING ISOMETRIC PAPER TO ACCURATELY DRAW DIFFERENT SHAPES BEFORE INVESTING THE VOLUMES AND SURFACE AREAS OF 3D SHAPES, AND THE RELATIONSHIP BETWEEN FACES, EDGES AND VERTICES.

- INVESTIGATING THE RELATIONSHIP BETWEEN AREAS OF SQUARES AND RIGHT-ANGLED TRIANGLES BEFORE SEEING HOW THIS RELATIONSHIP CAN BE USED TO SOLVE GEOMETRICAL PROBLEMS.

· VIROLOGIST

· SOLAR PANEL ENGINEER

INDICES
- INVESTIGATING THE PROPERTIES OF NUMBERS AND DEVELOPING AN UNDERSTANDING OF INDEX FORM AND THE RULES THAN CAN APPLIED. STANDARD FORM IS INTRODUCED MAKING CONNECTIONS TO SKILLS ALSO USED IN SCIENCE.

AREA
- EXPLORING THE AREAS OF 2D SHAPES AND INVESTIGATING THEIR DIFFERENT PROPERTIES.

· A&E DOCTOR
· MARINE BIOLOGIST

· BAKER - COLLEGE/APPRENTICESHIP

RATIO, RATE AND SPEED

PERCENTAGES
- SECURING THE LINK BETWEEN FRACTIONS, DECIMALS AND PERCENTAGES AND USING MULTIPLICATIVE REASONING TO FIND PERCENTAGES OF AMOUNTS AND PERFORM PERCENTAGE INCREASES DECREASES.

- UNDERSTANDING THE LINK BETWEEN RATIOS, FRACTIONS AND DIVIDING AND EXPLORING THE USE OF DOUBLE NUMBER LINES TO SOLVE PROBLEMS.

· ROBOTICS - DEGREE

· ARTIST - DEGREE/APPRENTICESHIP

LINEAR FUNCTIONS
- AN INTRODUCTION TO LINEAR FUNCTIONS EXPLORING THE LINK BETWEEN SEQUENCES, GENERALISING PATTERNS AND INVESTIGATING EQUATIONS OF STRAIGHT LINES AND HOW THEY ARE USED TO MODEL REAL WORLD MATHEMATICS.

GEOMETRY II
- EXTENDING UNDERSTANDING OF ANGLES TO INCLUDE THE RELATIONSHIPS BETWEEN ANGLES IN PARALLEL LINES.

YEAR 8

END OF YEAR EXAM

· METEOROLOGIST
· ELECTRICIAN - BTEC/APPRENTICESHIP

· PROSTHETICS TECHNICIAN

FUNDEMENTALS OF ALGEBRA
- DEVELOPING THE FOUNDATIONAL CONCEPTS OF ALGEBRA INCLUDING AN UNDERSTANDING OF ALGEBRAIC CONVENTIONS AND LEARNING FUNDAMENTAL ALGEBRAIC SKILLS.

GEOMETRY I
- REVIEWING THE CONCEPT OF ANGLES AND INVESTIGATING RULES OF ANGLES SUCH AS ANGLES ON A STRAIGHT LINE.

· NASA SCIENTIST
· SCAFFOLDER - APPRENTICESHIP

· AEROSPACE ENGINEER
· SET DESIGNER

· CYBER SECURITY ENGINEER - APPRENTICESHIP/DEGREE

ROUNDING AND ESTIMATION
- UNDERSTANDING THE IMPORTANCE OF ACCURACY AND EXPLORING HOW TO USE ESTIMATION IN REAL WORLD CONTEXTS.

FRACTIONS
- EXPLORING THE RELATIONSHIP BETWEEN DIVISION AND FRACTIONS. UNDERSTANDING WHAT EQUIVALENT FRACTIONS ARE AND HOW TO CARRY OUT 4 OPERATIONS INVOLVING FRACTIONS.

PRIMES, HCF AND LCM
- UNDERSTANDING WHAT PRIME NUMBERS ARE AND EXPLORING THE IDEA THAT ALL NON-PRIME NUMBERS CAN BE EXPRESSED AS A PRODUCT OF THEIR PRIME FACTORS. DEVELOPING THIS FURTHER TO IDENTIFY THE HCF AND LCM OF PAIRS OF NUMBERS.

· BANKER
· GRAPHICS ENGINEER - DEGREE
· AIR TRAFFIC CONTROLLER

· NUTRITIONIST
· ASTRONOMER

DIVISION
- EXPLORING A VARIETY OF METHODS FOR DIVISION WHILE SECURING THE LINK BETWEEN MULTIPLICATION AND DIVISION.

ORDER OF OPERATIONS
- UNDERSTANDING THE RULES NEEDED TO PERFORM CALCULATIONS WITH MORE THAN ONE OPERATION CORRECTLY

· ACCOUNTANT - ONLINE COURSE
· CLOTHING DESIGNER

· NURSING - DEGREE
· CHEF
· PROGRAMMER

MULTIPLICATION
- DEVELOPING METHODS FOR MULTIPLICATION AND USING REPRESENTATIONS.

ADDITION AND SUBTRACTION
- EXPLORING DIFFERENT METHODS FOR CALCULATION AND USING THE BAR MODEL TO REPRESENT PROBLEMS.

YEAR 7