**N5 Applications – Course Outline**

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| TOPIC | CONTENT | RESOURCES |
| Percentages(Prelim) | * Percentage of a quantity – NC and C **(N)**
* Compound Interest **(N)**
* Appreciation/depreciation **(N)**
* Expressing one number as a percentage of the other – NC and C **(N)**
* Profit and loss – NC and C **(N)**
 | Teejay N5 Lifeskills Chapter 3Teejay Int 2 creditLeckie & Leckie Pg 269Storage Hunters profit and lossMaths workoutNumeracy workout |
| Fractions(Prelim) | * Fraction of a quantity **(N)**
* Adding and Subtracting Fractions **(N)**
* Ordering Fractions **(N)**
* Comparing Fractions **(N)**
* Converting fractions to decimals
 | Teejay N5 Lifeskills Chapter 4MathsboxMaths WorkoutNumeracy Workout |
| Money(Prelim) | * Foreign Exchange – NC and C **(N)**
* Wages and salaries

Income - overtime (time and a half, double time), commission, bonuses. Deductions – NI, tax and pension* Best buy
* Credit cards
* Hire purchase
* Insurance
* Budgeting
 | Teejay N5 Lifeskills Chapters 20, 21, 22, 23, 24Intermediate 1 Leckie & Leckie Chapters 1,2,3,4,5, |
| Speed, Distance, Time(Prelim) | * Time zones **(N)**
* Time intervals, including different time zones **(N)**
* Calculating distance
* Calculating speed
* Calculating time
* Converting minutes into decimal time etc – NC and C
 | Teejay N5 lifeskills Chapter 5 and 14Teejay Level FLeckie & Leckie Chapter 15 and Pg 282 some questionsMaths workout |
| Ratio and Proportion | * Using ratio **(N)**
* Direct proportion
* Inverse proportion
 | Teejay N5 Lifeskills Chapter 7Leckie & Leckie Pg 282 some questionsMathsboxMaths workoutNumeracy workout |
| Probability | * Simple probability **(N)**
* Probability tables
* Comparing probability
 | Teejay N5 Lifeskills Chapter 10 and 26Leckie & Leckie Chapter 6 Maths workoutNumeracy workout |
| Statistics(Prelim) | * Mean **(N)**, median, mode, range
* Standard deviation
* 5 figure summary including interquartile range and boxplot
* Stem and leaf – interpret and construct including back to back **(N)**
* Pie charts – interpret and construct **(N)**
* Interpreting graphs, charts and gauges **(N)**
* Scattergraphs – plot, line of best fit, interpret using line
 | Teejay N5 Lifeskills Chapters 9, 24, 25Teejay Int2 creditLeckie & Leckie Chapters 7, 8, 9, 22, 23, 24MathsboxMathsworkout |
| Tolerance(Prelim) | * Calculating tolerance
* Percentage tolerane
 | Teejay N5 Lifeskills Chapter 11Leckie & Leckie Chapter 16 |
| Gradient(Prelim) | * Calculate gradient (m = V/H)
* Compare gradient
 | Teejay N5 Lifeskills Chapter 16Leckie & Leckie Chapter 17Maths workout |
| Pythagoras(Prelim) | * Pythagoras - NC and C
* Problem solving with Pythagoras including area, lengths and gradients
 | Teejay N5 Lifeskills Chapter 15Leckie & Leckie Chapter 20Mathsworkout |
| Scale Drawing(Prelim) | * Navigation course including 3 figure bearings
* Scale drawing of shapes including angles
 | Teejay N5 Lifeskills Chapter 13Leckie & Leckie Chapters 11 & 12Mathsworkout |
| Circle/Area(Prelim) | * Circumference – whole, half and quarter
* Area – whole, half and quarter
* Composite area
* Perimeter of composite shape including Pythagoras
 | Teejay N5 Lifeskills Chapter 17Leckie & Leckie Chapter 18MathsworkoutMathsbox |
| Volume | * Cylinder – whole, half and quarter (prelim)
* Cone
* Pyramids
* Sphere
* Composite volume
* Converting cm3 and m3 to litres
 | Teejay N5 Lifeskills Chapters 8, 19Leckie and Leckie Chapter 19MathsworkoutMathsbox |
| Precedence Tables | * Complete precedence table
* Time management problem solving
 | WorksheetsLeckie & Leckie Chapter 14 |
| Container Packing | * Rectangular base – facing upwards, 2 options
* Square base – 3 options
 | Teejay N5 Lifeskills Chapter 18Leckie & Leckie Chapter 13 |
| Formulae | * Substituting numbers into formulae
* Solving problems when given conversion formulae eg miles to km, gallons to litres etc
 | Teejay N5 Lifeskills Chapter 12Leckie and Leckie Chapter 10Maths workoutMathsbox |
| Problem solving | * Case studies
 | Teejay N5 Lifeskills Chapter 18Leckie & Leckie Case studiesPast papers |