**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 3  Teejay Int 2 credit  Leckie & Leckie Pg 269  Storage Hunters profit and loss  Maths workout  Numeracy 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 4  Mathsbox  Maths Workout  Numeracy 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, 24  Intermediate 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 14  Teejay Level F  Leckie & Leckie Chapter 15 and Pg 282 some questions  Maths workout |
| Ratio and Proportion | * Using ratio **(N)** * Direct proportion * Inverse proportion | Teejay N5 Lifeskills Chapter 7  Leckie & Leckie Pg 282 some questions  Mathsbox  Maths workout  Numeracy workout |
| Probability | * Simple probability **(N)** * Probability tables * Comparing probability | Teejay N5 Lifeskills Chapter 10 and 26  Leckie & Leckie Chapter 6  Maths workout  Numeracy 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, 25  Teejay Int2 credit  Leckie & Leckie Chapters 7, 8, 9, 22, 23, 24  Mathsbox  Mathsworkout |
| Tolerance  (Prelim) | * Calculating tolerance * Percentage tolerane | Teejay N5 Lifeskills Chapter 11  Leckie & Leckie Chapter 16 |
| Gradient  (Prelim) | * Calculate gradient (m = V/H) * Compare gradient | Teejay N5 Lifeskills Chapter 16  Leckie & Leckie Chapter 17  Maths workout |
| Pythagoras  (Prelim) | * Pythagoras - NC and C * Problem solving with Pythagoras including area, lengths and gradients | Teejay N5 Lifeskills Chapter 15  Leckie & Leckie Chapter 20  Mathsworkout |
| Scale Drawing  (Prelim) | * Navigation course including 3 figure bearings * Scale drawing of shapes including angles | Teejay N5 Lifeskills Chapter 13  Leckie & Leckie Chapters 11 & 12  Mathsworkout |
| 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 17  Leckie & Leckie Chapter 18  Mathsworkout  Mathsbox |
| Volume | * Cylinder – whole, half and quarter (prelim) * Cone * Pyramids * Sphere * Composite volume * Converting cm3 and m3 to litres | Teejay N5 Lifeskills Chapters 8, 19  Leckie and Leckie Chapter 19  Mathsworkout  Mathsbox |
| Precedence Tables | * Complete precedence table * Time management problem solving | Worksheets  Leckie & Leckie Chapter 14 |
| Container Packing | * Rectangular base – facing upwards, 2 options * Square base – 3 options | Teejay N5 Lifeskills Chapter 18  Leckie & 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 12  Leckie and Leckie Chapter 10  Maths workout  Mathsbox |
| Problem solving | * Case studies | Teejay N5 Lifeskills Chapter 18  Leckie & Leckie Case studies  Past papers |