## NSF Pre-Mathcounts Coaching - Syllabus

| Beginner | Intermediate | Advanced |
| :--- | :--- | :--- |
| Measurements and Units | Percentages | Permutations and Combinations |
| Decimals and Fractions | Prime Factorization, GCF, LCM | Probability |
| Fractions Review | Probability | Arithmetic and Geometric Series |
| Raio \& Proportion and similar figures | Statistics-I |  |
| Mbsolute Values | Algebra Variables -1 | Systems of Equations |
| Geometry | Application of Algebra with one variable | Systems of Equations Word Problems |
| Divisibility - LCM, GCF | Application of Algebra - age related problems | Solving Inequalities |
| Singapore Math - Alternate way of solving | Application of Algebra - perimeter and investment |  |
| problems | problems | Geometry - Right Triangles |
| Sequences, Series, Patterns | Statistics-2 | Venn Diagrams |
| Graphs and Data | Frequency, stem and leaf plots | Coordinate Geometry |
| PEMDAS | Geometry-1 Angles and Pythogaras thorem | Compound Interest |
| Number Sense Tricks | Geometry -2 - Parallel Lines Ratio proportion | Sector Area and Length |
| Percent Proportion | Work problems - direct and inverse variation | Revision of Probability |
| Squares, Square roots, Areas, Geometry |  | Composite Functions |
| Review |  | Polynomials |

