**The City School**

**North Nazimabad Boys Campus**

**Syllabus Break Up,2nd Term 2017**

**Class: 9Subject: Mathematics 4024**

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| **Unit** | **Topic** | **Reference** |
| Personal and small business finance | * **Percentages**
* • Discount
* • Profit and loss
* • Taxation
* • Personal and Household finance
* • Simple interest& Compound interest
* • Hire purchase
* • Commission
* • Money
 |  Book- 3Ex: 6bEx: 6eEx: 6f Ex: 6gEx: 6h |
| Solutions of equations and inequalities | * **Solution to quadratic equations**
* • Factorization
* • Completing the square
* • Using the quadratic formula
* • Problems involving quadratic equations
* **Linear inequalities in one variable**
 | Book – 3Ex: 1a Ex: 1bEx: 1cEx: 1dEx: 1eEx: 1f |
| Coordinate geometry | * Length of segment
* • Mid-point
* • Gradient of a straight line
* • Equation of a straight line
* • Equation of parallel lines
* • Gradient of parallel and perpendicular lines
 | Book – 3Ex: 4aEx: 4bEx: 4c |
| Symmetry | * Plane and rotational Symmetry
* Planes of symmetry
* Axes of rotational symmetry
* Order of rotational symmetry
 | Book – 1Ex: 1e |
| Similarity and Congruence | * Congruent and similar triangles
* Similarity tests
* Area and volume of similar figures and solids
 | Book – 3Ex: 8a& 8bEx: 8d & 8eEx: 9a& 9b |
| Geometrical constructions | * Scale drawings
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| Statistics | * Categorical
* Numerical and
* Grouped data
 | Book – 3 (Addendum)Ex: III aEx: III b |
| Statistical diagrams | * Frequency Polygon
* Histograms with equal and unequal intervals
* scatter diagrams
 | Book – 4Ex: 5a & 5b |