🧮 SSC CGL Maths Syllabus Chapter-wise 2025 (Complete & Updated)

This is the most accurate **chapter-wise SSC CGL Maths syllabus** for both Tier-1 and Tier-2.

1️⃣ Number System

Tier-1 + Tier-2 Topics:

- Natural numbers, Integers, Whole numbers
- Rational & Irrational numbers
- Terminating & non-terminating decimals
- Remainder & divisibility concepts
- BODMAS
- Representation on number line
- LCM & HCF (Very important)
- Surds & Indices

👉 Expected Questions: **1–3 in Tier-1**, **2–4 in Tier-2**

2️⃣ Simplification & Approximation

- BODMAS based problems
- Large calculations with shortcuts
- Square & cube roots
- Fraction-decimal conversion
- Percentage-based approximations
- Reciprocals

👉 Weightage: **High in Tier-1**

3️⃣ Algebra

Basic Algebra

- Linear equations
- Simplifying algebraic expressions
- Factorization
- Identities: $(a+b)^2$, $(a-b)^2$, a^2-b^2
- Cross-multiplication

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Advanced Algebra (Tier-2)

- Quadratic equations
- Roots & discriminant
- Algebraic fractions
- Series & progressions (AP/GP)
- Inequalities

👉 Expected Questions: **3–5 in Tier-1**, **6–10 in Tier-2**

4️⃣ **Percentage**

- Basic percentage formulas
- Increase/Decrease
- Value-based problems
- Successive percentage changes

👉 Always asked in Tier-1 & supports other chapters.

5️⃣ **Profit, Loss & Discount**

- Cost price, selling price, marked price
- Discount & successive discounts
- Profit% & loss%
- Shopkeeper tricks
- False weight problems
- Discount vs. loss equivalency

👉 Weightage: **2–4 questions**

6️⃣ **Ratio & Proportion**

- Ratio basics
- Proportion & mean proportional
- Direct & inverse variation
- Partnership
- Ages-related problems

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👉 High scoring chapter.

7️⃣ Average

- Simple average
- Weighted average
- Missing number average
- Group replacement questions

👉 1–2 questions guaranteed.

8️⃣ Time & Work

- Efficiency (work per day)
- Work & wages
- Pipes & cisterns
- Negative efficiency
- Alternate days work

👉 Tier-2 asks tricky logic-based questions.

9️⃣ Time, Speed & Distance

- Speed = Distance/Time
- Relative speed
- Train-based problems
- Boat & stream
- Circular track problems
- Meeting & chasing concepts

👉 High scoring in both tiers.

🔟 Simple Interest & Compound Interest

Topics Covered:

- Principal, Rate, Time
- Amount calculations

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- Difference between SI & CI
- Compounding yearly, half-yearly, quarterly
- Installments

👉 1–2 questions very common.

1️⃣1️⃣ Mensuration (2D + 3D)

2D Mensuration

- Triangle, square, rectangle
- Parallelogram, rhombus
- Circle & semi-circle
- Area, perimeter

3D Mensuration

- Cube, cuboid
- Cylinder, cone, sphere
- Frustum

👉 Most important for Tier-2.

1️⃣2️⃣ Geometry

Topics Asked:

- Lines, angles
- Triangle properties
- Congruency & similarity
- Pythagoras theorem
- Quadrilaterals
- Circles (tangents, chords)
- Coordinate geometry: distance, section formulas

👉 Tier-2 Geometry is **high weightage & conceptual**.

1️⃣3️⃣ Trigonometry

Basic Trigonometry

- Trigonometric ratios

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- Complementary angles
- Heights & distances

Advanced Trigonometry (Tier-2)

- Trigonometric identities
- Simplification of expressions
- Trigonometric equations
- Sine rule & cosine rule

👉 One of the most scoring chapters once learned properly.

1️⃣4️⃣ Data Interpretation (DI)

Topics Covered:

- Bar graph
- Pie chart
- Line graph
- Tabular DI
- Missing DI

👉 Tier-2 DI may ask lengthy calculations.

1️⃣5️⃣ Statistics & Probability

- Mean, median, mode
- Standard deviation (basic understanding)
- Simple probability
- Coins, dice, playing cards

👉 Frequent in Tier-2.

1️⃣6️⃣ Miscellaneous

- Mixture & Allegation
- Venn diagrams (Math-based)
- Algebraic puzzles
- Number theory special concepts
- Base system questions

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