BIE Suggested Grade 6 Math – 12 Week Pacing Guide Interim 1

Units: Ratios, Fractions, Operations, Integers, Expressions

Weeks 1–3 | Unit 1: Ratios and Rates (6.RP.A.1, 6.RP.A.2, 6.RP.A.3)

Focus: Foundational proportional reasoning

Week 1

Introduce ratio concepts and ratio language.

Represent ratios with models (tape diagrams, double number lines).

Vocabulary: ratio, part-to-part, part-to-whole.

Week 2

Connect ratios to unit rates in real-world problems.

Compare rates using tables and graphs.

Week 3

Solve multi-step problems involving ratios and rates.

Use representations (tables, graphs, equations).

Checkpoint/Quiz: Ratios and Rates Mastery

Weeks 4–5 | Unit 2: Dividing Fractions (6.NS.A.1)

Focus: Fraction division as multiplicative reasoning

Week 4

Interpret fraction ÷ fraction using models (area, number line).

Write and solve contextual problems with fraction division.

Week 5

Move to procedural fluency with fraction division.

Apply fraction division to word problems (measurement, scaling).

Checkpoint/Quiz: Fraction Division Mastery

Weeks 6–7 | Unit 3: Operations with Multi-digit Numbers & Decimals (6.NS.B.2, 6.NS.B.3)

Focus: Procedural fluency with place value

Week 6

Review and practice multi-digit whole number division (long division).

Connect division to real-world contexts (sharing, grouping).

Week 7

Fluently add, subtract, multiply, and divide decimals.

Emphasize estimation and reasonableness of answers.

Checkpoint/Quiz: Whole Number & Decimal Fluency

Weeks 8–9 | Unit 4: Integers and the Number Line (6.NS.C.5, 6.NS.C.6)

Focus: Rational numbers and opposites

Week 8

Introduce positive and negative numbers in real-world contexts (temperature, elevation, money).

Explore opposites and absolute value.

Week 9

Plot integers and rational numbers on the number line.

Locate points on the coordinate plane (focus on quadrants I & II first).

Checkpoint/Quiz: Integers & Number Line Mastery

Weeks 10–12 | Unit 5: Expressions and Equations (6.EE.C.9)

Focus: Algebraic thinking and real-world applications

Week 10

Introduce independent and dependent variables.

Use input-output tables to identify rules.

Week 11

Write equations to represent relationships

Represent equations with tables and graphs.

Week 12

Analyze and compare real-world relationships (linear patterns).

Unit Project/Performance Task: Modeling a Real-World Relationship with Equations & Graphs

End-of-Unit Assessment (Cumulative for Units 1–5).