BIE Suggested Grade 5 Math – 12 Week Pacing Guide Interim 1

Unit 1: Place Value Foundations

Standards: 5.NBT.A.1, 5.NBT.A.2, 5.NBT.A.3, 5.NBT.A.4

Duration: Weeks 1–3

Week 1

Review place value with whole numbers up to millions.

5.NBT.A.1: Explore the "10 times greater/less" relationship using place value charts.

Connect exponents to patterns with powers of 10 (e.g., 10^3 = 1,000).

Week 2

5.NBT.A.2: Deepen exponent notation and connections to multiplying/dividing by powers of 10.

Introduce decimals to the thousandths (5.NBT.A.3).

Compare decimals using models (grids, base-ten blocks, number lines).

Week 3

5.NBT.A.3: Read, write, and compare decimals in multiple forms (standard, expanded, word form).

5.NBT.A.4: Rounding decimals to any place using real-world contexts (money, measurement).

Cumulative review task applying all place value standards.

Unit 2: Whole Number Operations

Standards: 5.NBT.B.5, 5.NBT.B.6

Duration: Weeks 4–6

Week 4

5.NBT.B.5: Multiply multi-digit whole numbers using area model and partial products.

Transition to standard algorithm with reasoning

Week 5

Continue fluency with multi-digit multiplication (word problems, real-world applications).

5.NBT.B.6: Introduce division with 2-digit divisors using models (base-ten blocks, area model, repeated subtraction).

Week 6

Refine long division strategies; connect to multiplication.

Interpret remainders in real-world contexts (e.g., grouping, measurement problems).

Mixed problem-solving tasks with multiplication and division.

Unit 3: Decimal Operations

Standards: 5.NBT.B.7

Duration: Weeks 7–9

Week 7

Add and subtract decimals using models (grids, number lines, base-ten blocks).

Connect to money and measurement contexts.

Week 8

Multiply decimals by whole numbers and decimals, starting with models → area models → place value reasoning.

Emphasize estimation for reasonableness.

Week

Divide decimals using models and reasoning strategies.

Move toward standard algorithm.

Culminating performance task with all four decimal operations.

Unit 4: Expressions and Patterns

Standards: 5.OA.A.1, 5.OA.A.2

Duration: Weeks 10–12

Week 10

5.OA.A.1: Explore grouping symbols (parentheses, brackets, braces).

Build understanding of order of operations with visual/interactive activities.

Week 11

Apply grouping symbols in real-world problem situations.

Transition to abstract expressions.

5.OA.A.2: Translate verbal phrases → numerical expressions (without evaluating).

Week 12

Combine writing/interpreting expressions with order of operations.

Patterns and real-world contexts (e.g., comparing costs, rules for games)

Culminating project: Students create and solve real-world expressions using operations and grouping symbols.

Built-in Spiraling/Review:

Weekly warm-ups revisit prior unit standards.

Problem-solving tasks require integration across standards (e.g., decimals + operations, expressions with decimals).