12 items are represented by the targets listed in Claim 1.

Claim #1
Students can explain and apply mathematical concepts and carry out mathematical procedures with precision and fluency.

Operations and Algebraic Thinking

Target A - 4 Items
Represent and solve problems involving multiplication and division

Standards
3.OA 1
3.OA 2
3.OA 3
3.OA 4

DOK 1, 2

Target B - 2 Items
Understand properties of multiplication and the relationship between multiplication and division

Standards
3.OA 5
3.OA 6

DOK 1

Target C - 2 Items
Multiply and divide within 100

Standard
3.OA 7

DOK 1

Target D - 4 Items
Solve problems involving the four operations, and identify and explain patterns in arithmetic

Standards
3.OA 8
3.OA 9

DOK 2
Mathematics Grade 3 IAB - Operations and Algebraic Thinking

1 item is represented by the targets listed in Claim 2.

Claim #2
PROBLEM SOLVING
Students can solve a range of complex well-posed problems in pure and applied mathematics, making productive use of knowledge and problem-solving strategies.

Target A
Apply mathematics to solve well-posed problems in pure mathematics and those arising in everyday life, society, and the workplace.

Target B
Select and use appropriate tools strategically.

Target C
Interpret results in the context of a situation.

Target D
Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flowcharts, or formulas).

3.OA.1-4, 3.OA.8-9, 3.NBT.1-3, 3.MD.1-8

DOK 2, 3

DOK 1, 2, 3

DOK 2, 3

DOK 1, 2, 3

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1 item is represented by the targets listed in Claim 3.

Claim #3
COMMUNICATING REASONING

Students can clearly and precisely construct viable arguments to support their own reasoning and to critique the reasoning of others.

Target A
Test propositions or conjectures with specific examples.

Target B
Construct, autonomously, 12 chains of reasoning that will justify or refute propositions or conjectures.

Target C
State logical assumptions being used.

Target D
Use the technique of breaking an argument into cases.

Target E
Distinguish correct logic or reasoning from that which is flawed, and—if there is a flaw in the argument—explain what it is.

Target F
Base arguments on concrete referents such as objects, drawings, diagrams, and actions.

3.OA.5-6, 3.NF.1-3, 3.MD.1-2, 3.MD.7

DOK 2, 3  DOK 2, 3, 4  DOK 2, 3  DOK 2, 3  DOK 2, 3, 4  DOK 2, 3

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Claim #4
MODELING AND DATA ANALYSIS
Students can analyze complex, real-world scenarios and can construct and use mathematical models to interpret and solve problems.

Target A: Apply mathematics to solve problems arising in everyday life, society, and the workplace.
Target B: Construct, autonomously, chains of reasoning to justify mathematical models used, interpretations made, and solutions proposed for a complex problem.
Target C: State logical assumptions being used.
Target D: Interpret results in the context of a situation.
Target E: Analyze the adequacy of and make improvements to an existing model or develop a mathematical model of a real phenomenon.
Target F: Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flowcharts, or formulas).
Target G: Identify, analyze and synthesize relevant external resources to pose or solve problems.


DOK 2, 3, 4
DOK 2, 3
DOK 2, 3
DOK 2, 3, 4
DOK 2, 3
DOK 1, 2, 3
DOK 3, 4

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