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

Measurement and Data

Target G - 4 Items
Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects
Standards 3.MD 1 3.MD 2
DOK 1, 2

Target H - 2 Items
Represent and interpret data
Standards 3.MD 3 3.MD 4
DOK 2, 3

Target I - 4 Items
Geometric measurement: understand concepts of area & relate area to multiplication and to addition
Standards 3.MD 5 3.MD 6 3.MD 7 3.OA.5 3.G 2
DOK 1, 2

Target J - 2 Items
Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures
Standards 3.MD 8
DOK 1

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

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, 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
DOK 2, 3
DOK 2, 3
DOK 2, 3
DOK 2, 3
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.

3.OA.1-4, 3.OA.8-9, 3.MD.1-2, 3.MD.5-8

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