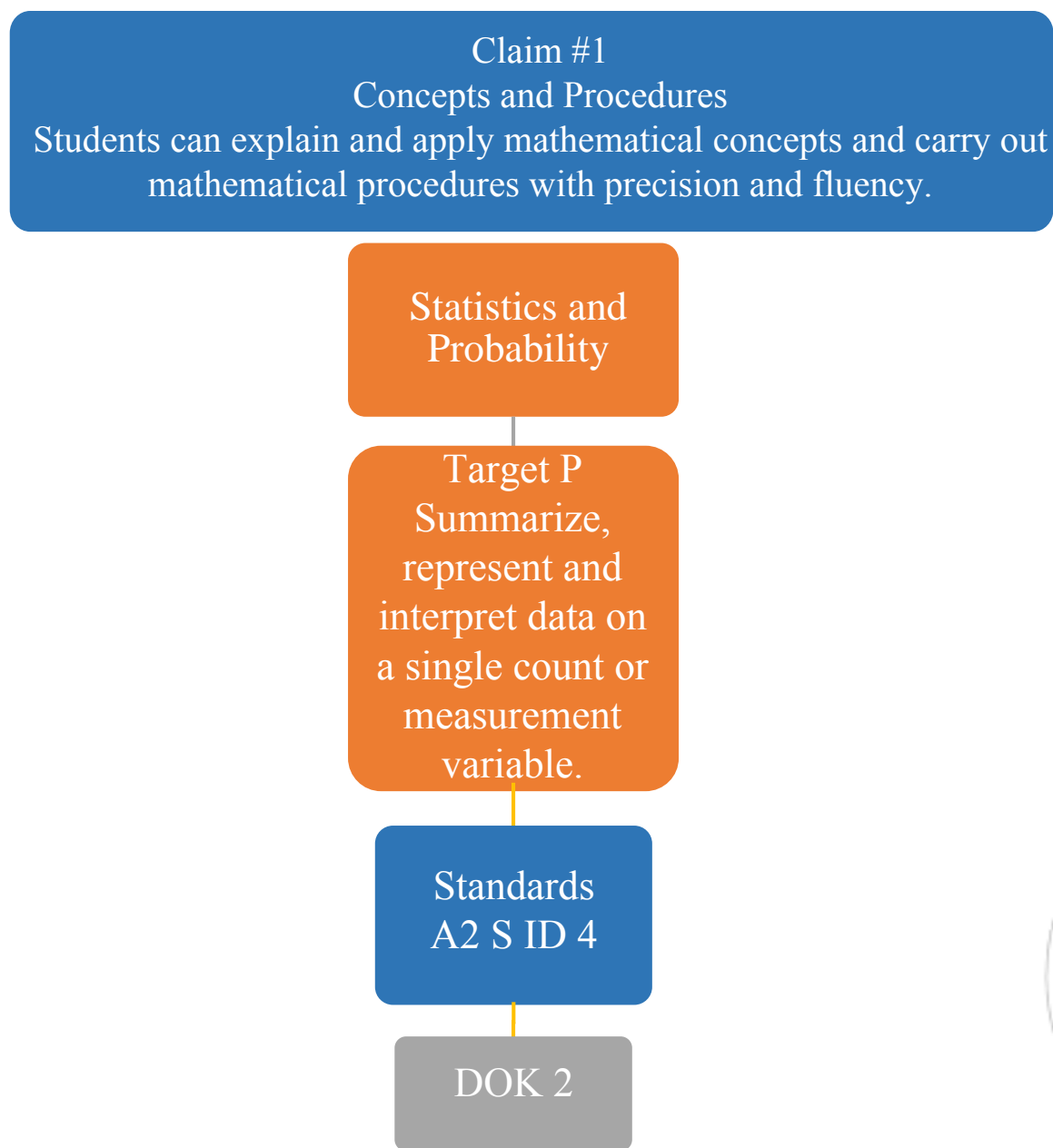# Mathematics High School IAB - Statistics and Probability

6 questions are represented by the targets listed in Claim 1.

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

Statistics and Probability

Target P
Summarize, represent and interpret data on a single count or measurement variable.

Standards
A2 S ID 4

DOK 2
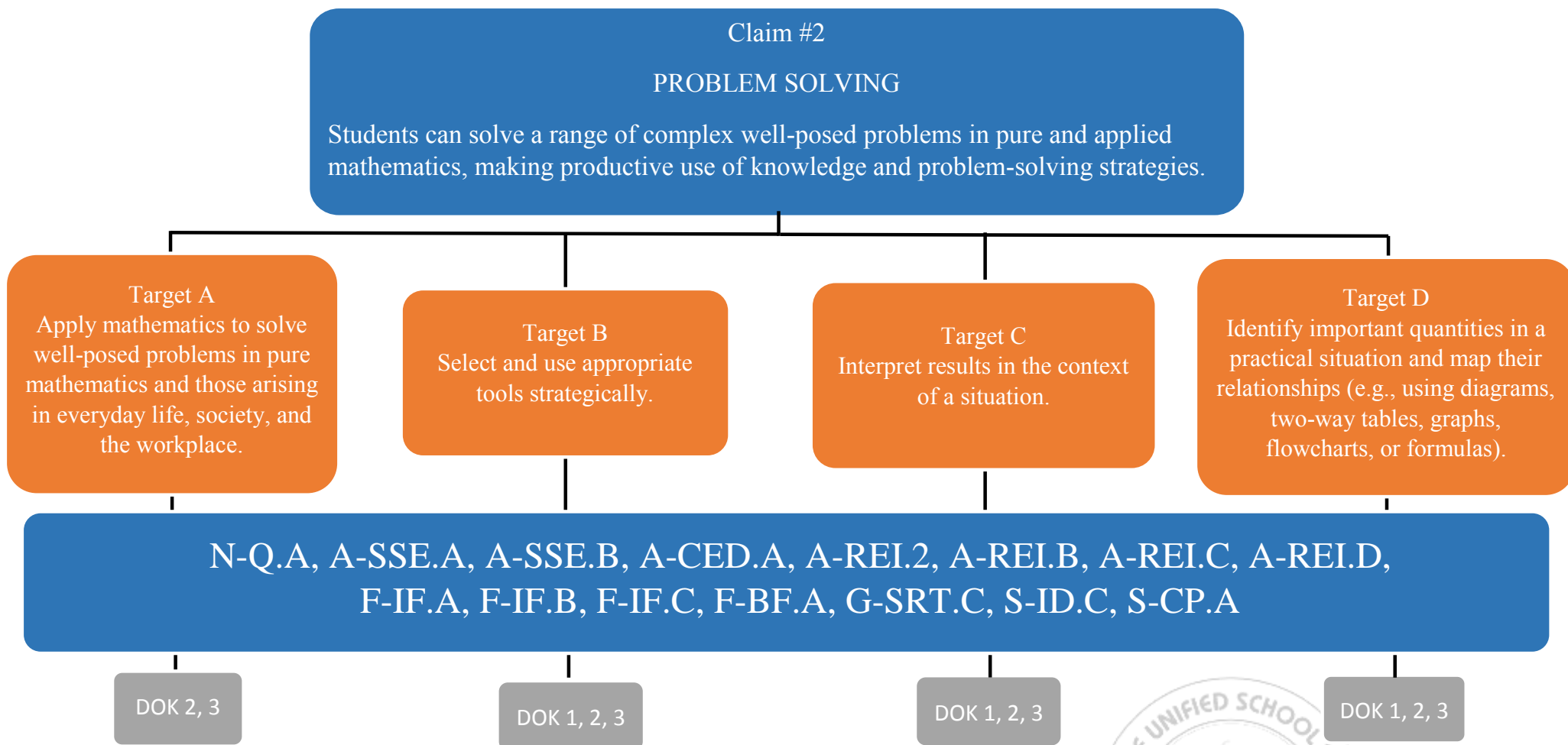
Mathematics High School IAB - Statistics and Probability

3 question 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).

N-Q.A, A-SSE.A, A-SSE.B, A-CED.A, A-REI.2, A-REI.B, A-REI.C, A-REI.D, F-IF.A, F-IF.B, F-IF.C, F-BF.A, G-SRT.C, S-ID.C, S-CP.A

DOK 2, 3

DOK 1, 2, 3

DOK 1, 2, 3

DOK 1, 2, 3

Mathematics High School IAB - Statistics and Probability

3 question is represented by the targets listed in Claim 4.

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.

N-Q.A, A-SSE.B, A-CED.A, A-REI.A, A-REI.B, A-REI.C, F-IF.B, F-IF.C, F-BF.A, S-ID.A, S-ID.B, S-IC.1, S-IC.B, F-LE.A, F-LE.B, F-TF.5, G-GMD.3, G-MG

| 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 |