***Which Standards Does the SBAC Assessment Measure?***

***Summary from SBAC Content Specifications***

**SBAC Alignment to Grade 5 Standards**

*KEY: Claim 1 is red, Claim 2 is blue, Claim 3 is purple, Claim 4 is green. Target letter follows the hyphen.*

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Operations and Algebraic Thinking** | **SBAC Claim-Target** | **Number and Operations in Base Ten** | **SBAC Claim-Target** | **Number and Operations-Fractions** | **SBAC Claim-Target** | **Measurement and Data** | **SBAC Claim-Target** | **Geometry** | **SBAC Claim-Target** |
| **OA.1** | **1-A** | **NBT.1** | **1-C** | **NF.1** | **1-E**  **2-A thru D**  **3-A thru F**  **4-A thru G** | **MD.1** | **1-G**  **2-A thru D**  **4-A thru G** | **G.1** | **1-J**  **2-A thru D**  **4-A thru G** |
| **OA.2** | **1-A** | **NBT.2** | **1-C**  **3-A thru F** | **NF.2** | **1-E**  **2-A thru D**  **3-A thru F**  **4-A thru G** | **MD.2** | **1-H**  **4-A thru G** | **G.2** | **1-J**  **2-A thru D**  **4-A thru G** |
| **OA.3** | **1-B** | **NBT.3** | **1-C** | **NF.3** | **1-F**  **2-A thru D**  **3-A thru F**  **4-A thru G** | **MD.3** | **1-I**  **2-A thru D**  **4-A thru G** | **G.3** | **1-K** |
|  |  | **NBT.4** | **1-C** | **NF.4** | **1-F**  **2-A thru D**  **3-A thru F**  **4-A thru G** | **MD.4** | **1-I**  **2-A thru D**  **4-A thru G** | **G.4** | **1-K**  **3-A thru F** |
|  |  | **NBT.5** | **1-D**  **2-A thru D**  **4-A thru G** | **NF.5** | **1-F**  **2-A thru D**  **4-A thru G** | **MD.5** | **1-I**  **2-A thru D**  **3-A thru F**  **4-A thru G** |  |  |
|  |  | **NBT.6** | **1-D**  **2-A thru D**  **3-A thru F**  **4-A thru G** | **NF.6** | **1-F**  **2-A thru D**  **4-A thru G** |  |  |  |  |
|  |  | **NBT.7** | **1-D**  **2-A thru D**  **3-A thru F**  **4-A thru G** | **NF.7** | **1-F**  **2-A thru D**  **3-A thru F**  **4-A thru G** |  |  |  |  |

**Smarter Balanced Claims for Math**

* **Claim 1:** **Concepts & Procedures –** Students can explain and apply mathematical concepts and interpret and carry out mathematical procedures with precision and fluency.
* **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.
* **Claim 3: Communicating Reasoning –** Students can clearly and precisely construct viable arguments to support their own reasoning and to critique the reasoning of others.
* **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.

**Smarter Balanced Claims & Targets for Math**

*“m” – denotes major*

*“a/s” denotes additional/supporting*

**Claim 1: Concepts & Procedures –** Students can explain and apply mathematical concepts and interpret and carry out mathematical procedures with precision and fluency.

* Target A [a/s]: Write and interpret numerical expressions.
* Target B [a/s]: Analyze patterns and relationships.
* Target C [m]: Understand the place value system.
* Target D [m]: Perform operations with multi-digit whole numbers and with decimals to hundredths.
* Target E [m]: Use equivalent fractions as a strategy to add and subtract fractions.
* Target F [m]: Apply and extend previous understandings of multiplication and division to multiply and divide fractions.
* Target G [a/s]: Convert like measurement units within a given measurement system.
* Target H [a/s]: Represent and interpret data.
* Target I [m]: Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.
* Target J [a/s]: Graph points on the coordinate plane to solve real-world and mathematical problems.
* Target K [a/s]: Classify two-dimensional figures into categories based on their properties.

**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).

**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.
* **Target G:** At later grades, determine conditions under which an argument does and does not apply. (For example, area increases with perimeter for squares, but not for all plane figures.)

**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.