



Test Blueprints

AK STAR English Language Arts and Mathematics

Overview

The AK STAR test is an item-adaptive test model that extends the purpose of the assessment beyond determining end-of-grade proficiency to also include high-precision RIT scores compatible with MAP Growth. The test model has two components:

- The **Summative** component that —
 - Addresses the breadth and depth of the Alaska grade-level content standards
 - Produces a summative test score and proficiency determination
 - Satisfies the core summative test blueprint for balance of content representation
- The **Growth** component that —
 - Accesses a broader item pool, including items from MAP Growth and items assessing above- or below-grade standards
 - Works together with the items from the core summative component to yield scores on the MAP Growth RIT scale, including a RIT score specific to current MAP Growth Instructional Areas

Figure 1 illustrates how these two components work together to produce both a single summative test score and a suite of informative sub-scores by Instructional Area.

Figure 1. Items Contributing to Summative and Growth Scores

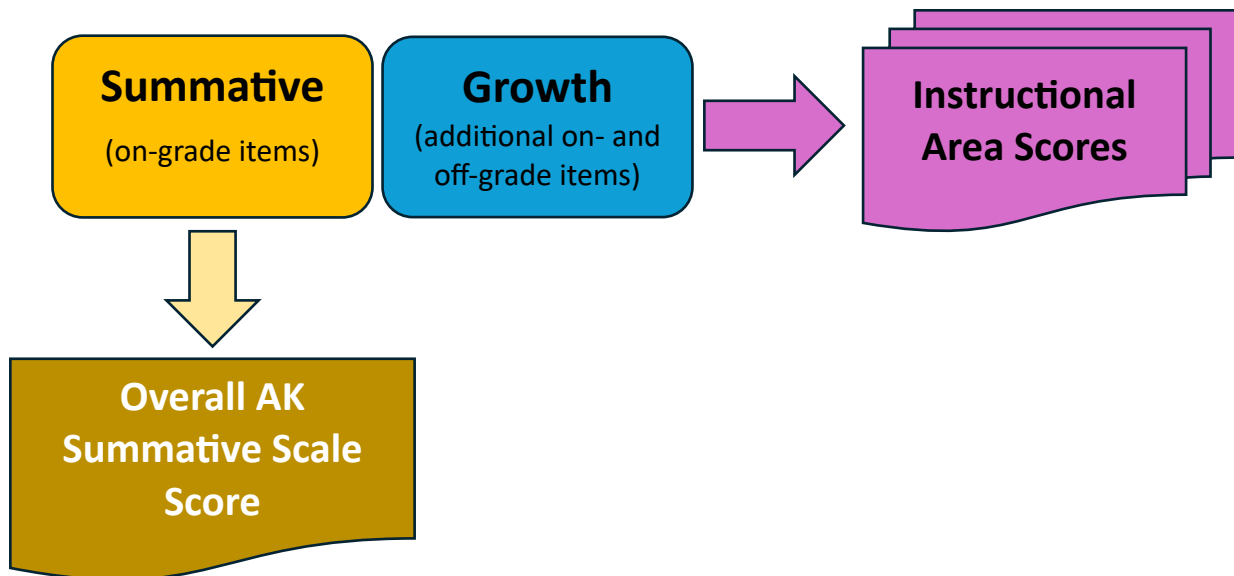
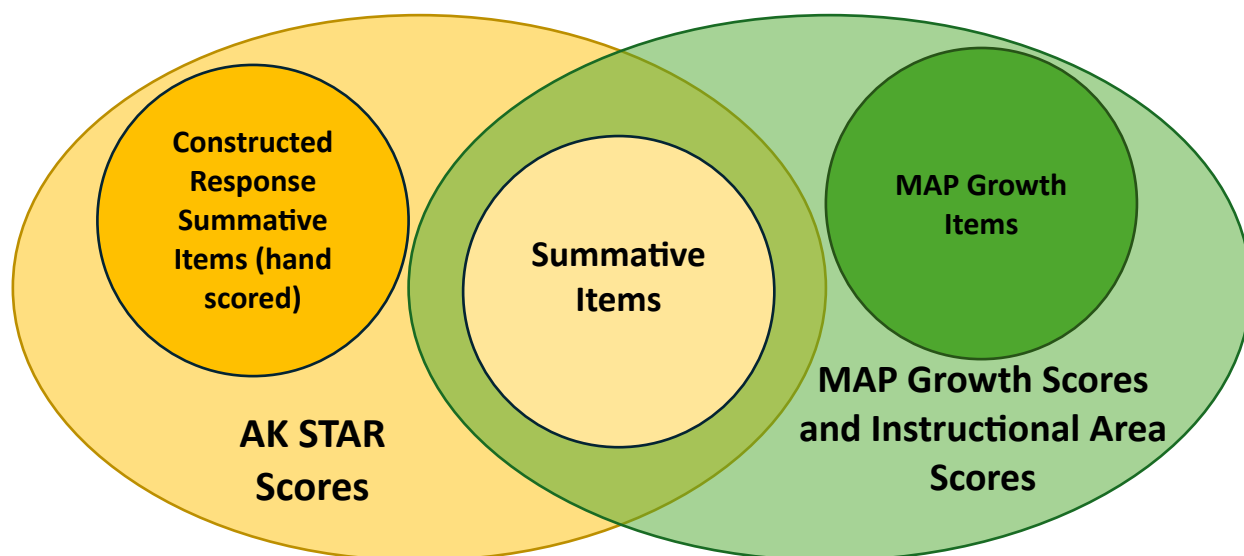


Figure 2 illustrates how AK STAR uses Summative Items and MAP Growth Items to produce a single summative test score and a suite of interim information by instructional areas. This Venn diagram can be helpful to use when interpreting the blueprints below.

Figure 2. Items Contributing to Summative, MAP Growth, and Instructional Area Scores



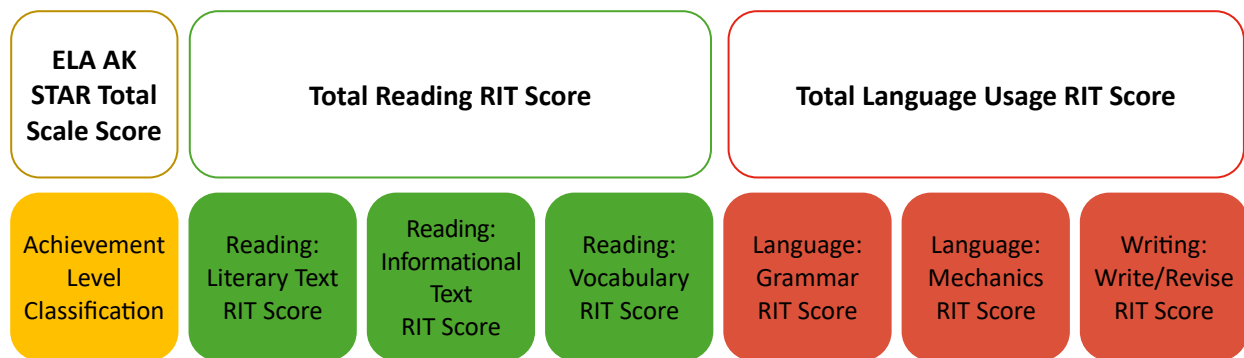
The AK STAR assessment is designed as an item-level adaptive test. Adaptive tests and their blueprints can typically be less prescriptive about exact item and point counts because the goal—unlike a linear assessment—is to use the adaptive nature to determine the test scores with the greatest precision and also the greatest efficiency possible. Therefore, adaptive test blueprints typically state their targets in terms of percentages and ranges to allow the adaptive engine to tailor the test to the individual student while still fulfilling the overall claims and required scores for all students equally.

The MAP Growth questions in the growth component for the AKSTAR assessment will follow the Enhanced Item Selection Algorithm (EISA) the same way as MAP Growth fall and winter interim assessments. EISA gives prioritization to grade-level questions and then adapts to questions up to two grades above or below the student's current grade. It is possible, though unlikely, for students to encounter questions that are more than two grade levels above or below their current grade level. The bolded standards in the following pages of this blueprint indicate the standards that are prioritized for each grade level.

English Language Arts

The English language arts (ELA) test design presented in Figure 3 shows the following reporting categories. These scores are reported at the individual student level and aggregated into traditional reporting groups (e.g., grade, school, district).

Figure 3. English Language Arts Score Reporting Categories



The ELA AK STAR score reports include two overall reporting elements used for state and federal accountability purposes: 1) ELA AK STAR Total Scale Score, and 2) Achievement Level Classification. The Summative component of the test is used to generate the accountability scores and classifications.

The test design also produces two additional domain scores on the same score scales that MAP Growth¹ uses: 1) Total Reading RIT Score, and 2) Total Language Usage RIT Score. These scores—and their related sub-scores—are derived from items in the Summative component as well as the additional items from the Growth component in these two domains. These scores—and their related sub-scores—are intended to support classroom instruction and do not contribute to state or federal accountability requirements. The four overall domain scores or classifications are listed in **Table 1**.

Table 1. English Language Arts Domain Scores and Classifications

| Total Scores | Description |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| ELA AK STAR Total Scale Score | Summary scale score generated from all eligible Summative items |
| Achievement Level Classification | Classification of student performance: Needs Support, Approaching Proficient, Proficient, and Advanced |
| Total Reading RIT Score | Summary scale score generated from all contributing Growth reading items (including Summative items that also contribute to this score) |
| Total Language Usage RIT score | Summary scale score generated from all contributing Growth language usage items (including Summative items that also contribute to this score) |

¹ ELA AK STAR aligns with MAP Growth Language Usage 2–12 and MAP Growth Reading 2–5 (grades 3–5) or MAP Growth Reading 6+ (grades 6–9).

The sub-scores in the English Language Arts test design are compatible with the MAP Growth Instructional Areas. In the AK STAR, an Instructional Area RIT score is generated in the sub-score instructional areas listed in **Table 2** and **Table 3** for grades 3–9.

Table 2. Reading Instructional Areas

| Reading | |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Literary Text | <ul style="list-style-type: none"> Analyze Theme and Literary Elements; Summarize Analyze Point of View, Features, and Structure |
| Informational Text | <ul style="list-style-type: none"> Analyze Central Idea, Concepts, and Events; Summarize Analyze Point of View, Purpose, Features, and Structure |
| Vocabulary | <ul style="list-style-type: none"> Vocabulary |

Table 3. Language Usage Instructional Areas

| Language Usage | |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Language: Understand, Edit for Grammar, Usage | <ul style="list-style-type: none"> Parts of Speech Phrases, Clauses, Agreement, Sentences |
| Language: Understand, Edit Mechanics | <ul style="list-style-type: none"> Capitalization Punctuation Spelling |
| Writing: Plan, Organize, Develop, Revise, Research | <ul style="list-style-type: none"> Plan, Organize; Create Cohesion, Use Transitions Provide Support; Develop Topics; Conduct Research Establish and Maintain Style; Use Precise Language Purpose and Audience |

All items in the Summative component of the ELA AK STAR are based on a written stimulus or stimuli. Each ELA AK STAR test will include one Literary Pair with questions about two literary reading passages and a short constructed-response (CR) item assessing writing; one Informational Single with questions about an informational reading passage; one Research Pair with questions about paired informational reading passages; and between 3 and 5 Simulated Student Writing sets assessing language and writing skills in the context of an authentic student writing draft.

The test blueprints that follow describe the content assessed in the Summative component, including the number of items contributing to the ELA AK STAR Total Scale Score, as well as the additional items contributing to the Total and Instructional Area RIT scores in the Growth component. The items in the Summative component are multiple-choice and technology-enhanced items, each worth 1 or 2 points, and the short constructed-response item is worth up to 3 points.

The alignment of both components is illustrated in **Figure 4**. The left side of each test blueprint shows the content assessed in the Summative component, including the target number of items

per strand and the range of possible points, which would depend on the adaptive selection of 1- and 2-point items and the 3- point CR task in Writing. The right side of each test blueprint shows the additional Growth items that contribute to the Instructional Area RIT scores. In cases where no additional Growth items are needed, as is the case with Writing, the target additional item count is presented as “N/A.”

Below the Summative Component and Growth Component you can see a breakdown of overall item counts for summative component, growth component, field test items and overall item count.

Figure 4. English Language Arts Test Blueprint

| | | | | | | | | | |
|----------------|------------------------------------------------|----------------------------------------|-----------------------------|--------------------------|-----------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------------------------|
| Grade 4 ELA | Summative Scale Score | | | | Additional Growth Items for Instructional Areas | | | Guidelines for Overall RIT Score Items ⁴ | Total AK STAR Points |
| | Assessed Content Standards | Target Item Count | Summative Points Per Strand | Assessed AK Standards | Instructional Areas | Target Item Count | Aligned AK Standards | Target Item Count per IA ⁵ | Target Range Points per IA |
| | Reading Literature | 8 | 8–10 | RL.4.1–RL.4.7; RL.4.9 | LITERARY TEXT | 3 | RL.K.2.3.5.6.7 RL.1.2.3.5.6.7 RL.2.2.3.5.6.7 RL.3.2.3.5.6.7.9 RL.4.2.3.5.6.7.9 RL.5.2.3.5.6.7 RL.6.2.3.5.6.9 RL.7.2.3.5.6.9 RL.8.2.3.5.6 | 11 | 11–13 |
| | Reading Informational Text | 9 | 12–15 | RI.4.1–RI.4.9 | INFORMATIONAL TEXT | 2 | RI.K.3.5.6.7.8 RI.1.2.3.5.6.7.9 RI.2.2.3.5.6.7.9 RI.3.2.3.5.6.7.8 RI.4.2.3.5.6.7.9 RI.5.2.3.5.6.7.9 RI.6.2.3.5.6.7.8 RI.7.2.3.5.6.8.9 RI.8.2.3.5.6.9.2 | 11 | 11–16 |
| | Vocabulary | 5 | 5 | L.4.4–L.4.6 | VOCABULARY | 6 | L.4.4–L.4.6 L.4.4–L.4.6 L.4.4–L.4.6 L.4.4–L.4.6 L.4.4–L.4.6 L.4.4–L.4.6 | 11 | 11 |
| | Language | 8 | 8–9 | L.4.1–L.4.3 | LANGUAGE: GRAMMAR | 5 | L.K.1, L.1.1, L.2.1 L.3.1, L.4.1, L.5.1 L.6.1, L.7.1, L.8.1 L.9-10.1, L.11-12.1 | 9 | 9 |
| | | | | | LANGUAGE: MECHANICS | 5 | L.K.2, L.1.2, L.2.2 L.3.2, L.4.2, L.5.2 L.6.2, L.7.2, L.8.2 L.9-10.2, L.11-12.2 | 9 | 9 |
| | Writing | 9 (1 Hand-Scored Constructed Response) | 13 | W.4.1–W.4.9 | WRITING: WRITE/REVISE | 1 | W.4.1-8 W.4.1-8 W.4.1-8; L.2.3 W.4.1-8; L.3.3 W.4.1-8; L.4.3 W.5.1-8; L.5.3 W.6.1-8; L.6.3 W.7.1-8; L.7.3 W.8.1-8; L.8.3 W.9-10.1-8; L.9-10.3 W.11-12.1-8; L.11-12.3 | 9 | 9–11 |
| | Item Count Contributing to AK STAR Scale Score | 38 + 1 Constructed Response | | | Target Additional Item Count Contributing to Growth | 22 | | Field Test Items | 5 |
| | Overall Item Count | | | | | | | | |

Figure 5 below displays the number of ELA total items for each grade level.

Figure 5. ELA Total Number of Items

| Grade Level | ELA Total Items |
|-------------|-----------------|
| 3 | 63 |
| 4 | 66 |
| 5 | 69 |
| 6 | 69 |
| 7 | 69 |
| 8 | 69 |
| 9 | 70 |

Grade 3
ELA

| Summative Scale Score | | | | Additional Growth Items for Instructional Areas | | | Guidelines for Overall RIT Score Items ² | Total AK STAR Points |
|------------------------------------------------|----------------------------------------|-----------------------------|--------------------------|-----------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------------------------|
| Assessed Content Standards | Target Item Count | Summative Points Per Strand | Assessed AK Standards | Instructional Areas | Target Item Count | Aligned AK Standards | Target Item Count per IA ³ | Target Range Points per IA |
| Reading Literature | 8 | 9–10 | RL.3.1 - RL.3.7; RL.3.9 | LITERARY TEXT | 3 | RL.K.2,3,5,6,7 RL.1.2,3,5,6,7 RL.2.2,3,5,6,7,9 RL.3.2,3,5,6,7,9 RL.4.2,3,5,6,7,9 RL.5.2,3,5,6,7,9 RL.6.2,3,5,6,9 RL.7.2,3,5,6,9 RL.8.2,3,5,6,9 | 11 | 11–12 |
| Reading Informational Text | 8 | 9–11 | RI.3.1–RI.3.9 | INFORMATIONAL TEXT | 3 | RI.K.3,5,6,7,8 RI.1.2,3,5,6,7,8,9 RI.2.2,3,5,6,7,8,9 RI.3.2,3,5,6,7,8,9 RI.4.2,3,5,6,7,8,9 RI.5.2,3,5,6,7,8,9 RI.6.2,3,5,6,7,8 RI.7.2,3,5,6,8,9 RI.8.2,3,5,6,7,8,9 | 11 | 11–14 |
| Vocabulary | 5 | 5–7 | L.3.4–L.3.6 | VOCABULARY | 6 | L.K.4-6; RL.K.4; RI.K.4 L.1.4-6; RL.1.4; RI.1.4 L.2.4-6; RL.2.4; RI.2.4 L.3.4-6; RL.3.4; RI.3.4 L.4.4-6; RL.4.4; RI.4.4 L.5.4-6; RL.5.4; RI.5.4 L.6.4-6; RL.6.4; RI.6.4 L.7.4-6; RL.7.4; RI.7.4 L.8.4-6; RL.8.4; RI.8.4 | 11 | 11–12 |
| Language | 8 | 8–9 | L.3.1–L.3.3 | LANGUAGE: GRAMMAR | 4 | L.K.1, L.1.1, L.2.1 L.3.1, L.4.1, L.5.1 L.6.1, L.7.1, L.8.1 L.9-10.1, L.11-12.1 | 8 | 8 |
| | | | | LANGUAGE: MECHANICS | 4 | L.K.2, L.1.2, L.2.2 L.3.2, L.4.2, L.5.2 L.6.2, L.7.2, L.8.2 L.9-10.2, L.11-12.2 | 8 | 8–9 |
| Writing | 9 (1 Hand-Scored Constructed Response) | 12–13 | W.3.1–W.3.5; W.3.7–W.3.8 | WRITING: WRITE/REVISE | N/A | W.K.1-8 W.1.1-8 W.2.1-8, L.2.3 W.3.1-W.3.5; W.3.7-W.3.8; L.3.3 W.4.1-5; W.4.7-W.4.9; L.4.3 W.5.1-5; W.5.7-8; L.5.3 W.6.1-5; W.6.7-8; L.6.3 W.7.1-5; W.7.7-8; L.7.3 W.8.1-5; W.8.7-8; L.8.3 W.9-10.1-5; W.9-10.7-8; L.9-10.3 W.11-12.1-8; L.11-12.3 | 8 | 8–9 |
| Item Count Contributing to AK STAR Scale Score | 37 + 1 Constructed Response | | | Target Additional Item Count Contributing to Growth | 20 | | Field Test Items | 5 |
| Overall Item Count | | | | | | | | |
| 63 | | | | | | | | |

² Due to the adaptive nature of the test engine, these numbers are targets rather than requirements.

³ Figure 2 can be useful in understanding how AK STAR uses Summative items and MAP Growth items to produce a single summative score and a suite of diagnostic scores by instructional areas

| | | | | | | | | | | | |
|------------------------------------------------|----------------------------|----------------------------------------|-----------------------------|-----------------------------------------------------|-------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------------------------|----------------------|--|
| Grade 4 ELA | Summative Scale Score | | | | Additional Growth Items for Instructional Areas | | | Guidelines for Overall RIT Score Items ⁴ | | Total AK STAR Points | |
| | Assessed Content Standards | Target Item Count | Summative Points Per Strand | Assessed AK Standards | Instructional Areas | Target Item Count | Aligned AK Standards | Target Item Count per IA ⁵ | Target Range Points per IA | | |
| | Reading Literature | 8 | 8–10 | RL.4.1–RL.4.7; RL.4.9 | LITERARY TEXT | 3 | RL.K.2,3,5,6,7 RL.1.2,3,5,6,7 RL.2.2,3,5,6,7,9 RL.3.2,3,5,6,7,9 RL.4.2,3,5,6,7,9 RL.5.2,3,5,6,7,9 RL.6.2,3,5,6,9 RL.7.2,3,5,6,9 RL.8.2,3,5,6,9 | 11 | 11–13 | | |
| | Reading Informational Text | 9 | 12–15 | RI.4.1–RI.4.9 | INFORMATIONAL TEXT | 2 | RI.K.3,5,6,7,8 RI.1.2,3,5,6,7,8,9 RI.2.2,3,5,6,7,8,9 RI.3.2,3,5,6,7,8,9 RI.4.2,3,5,6,7,8,9 RI.5.2,3,5,6,7,8,9 RI.6.2,3,5,6,7,8 RI.7.2,3,5,6,8,9 RI.8.2,3,5,6,7,8,9 | 11 | 11–16 | | |
| | Vocabulary | 5 | 5 | L.4.4–L.4.6 | VOCABULARY | 6 | L.K.4-6; RL.K.4; RI.K.4 L.1.4-6; RL.1.4; RI.1.4 L.2.4-6; RL.2.4; RI.2.4 L.3.4-6; RL.3.4; RI.3.4 L.4.4-6; RL.4.4; RI.4.4 L.5.4-6; RL.5.4; RI.5.4 L.6.4-6; RL.6.4; RI.6.4 L.7.4-6; RL.7.4; RI.7.4 L.8.4-6; RL.8.4; RI.8.4 | 11 | 11 | | |
| | Language | 8 | 8–9 | L.4.1–L.4.3 | LANGUAGE: GRAMMAR | 5 | L.K.1, L.1.1, L.2.1 L.3.1, L.4.1, L.5.1 L.6.1, L.7.1, L.8.1 L.9-10.1, L.11-12.1 | 9 | 9 | | |
| | | | | | LANGUAGE: MECHANICS | 5 | L.K.2, L.1.2, L.2.2 L.3.2, L.4.2, L.5.2 L.6.2, L.7.2, L.8.2 L.9-10.2, L.11-12.2 | 9 | 9 | | |
| | Writing | 9 (1 Hand-Scored Constructed Response) | 13 | W.4.1–W.4.5; W.4.7-W.4.9 | WRITING: WRITE/REVISE | 1 | W.K.1-8 W.1.1-8 W.2.1-8; L.2.3 W.3.1-W.3.5; W.3.7-W.3.8; L.3.3 W.4.1-5; W.4.7-W.4.9; L.4.3 W.5.1-5; W.5.7-8; L.5.3 W.6.1-5; W.6.7-8; L.6.3 W.7.1-5; W.7.7-8; L.7.3 W.8.1-5; W.8.7-8; L.8.3 W.9-10.1-5; W.9-10.7-8; L.9-10.3 W.11-12.1-8; L.11-12.3 | 9 | 9–11 | | |
| Item Count Contributing to AK STAR Scale Score | | 38 + 1 Constructed Response | | Target Additional Item Count Contributing to Growth | | 22 | | Field Test Items | | 5 | |
| Overall Item Count | | | | | | | | | | | |
| 66 | | | | | | | | | | | |

⁴ Due to the adaptive nature of the test engine, these numbers are targets rather than requirements.

⁵ Figure 2 can be useful in understanding how AK STAR uses Summative items and MAP Growth items to produce a single summative score and a suite of diagnostic scores by instructional areas

Grade
5 ELA

| Summative Scale Score | | | | Additional Growth Items for Instructional Areas | | | Guidelines for Overall RIT Score Items ⁶ | Total AK STAR Points |
|------------------------------------------------|----------------------------------------|-----------------------------|-----------------------------|-----------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------------------------|
| Assessed Content Standards | Target Item Count | Summative Points Per Strand | Assessed AK Standards | Instructional Areas | Target Item Count | Aligned AK Standards | Target Item Count per IA ⁷ | Target Range Points per IA |
| Reading Literature | 8 | 9–10 | RL.5.1–RL.5.7; RL.5.9 | LITERARY TEXT | 4 | RL.K.2,3,5,6,7 RL.1.2,3,5,6,7 RL.2.2,3,5,7,9 RL.3.2,3,5,6,7,9 RL.4.2,3,5,6,7,9 RL.5.2,3,5,6,7,9 RL.6.2,3,5,6,9 RL.7.2,3,5,6,9 RL.8.2,3,5,6 | 11 | 11–13 |
| Reading Informational Text | 11 | 12–16 | RI.5.1–RI.5.9 | INFORMATIONAL TEXT | 1 | RI.K.3,5,6,7,8 RI.1.2,3,5,6,7,8,9 RI.2.2,3,5,6,7,8,9 RI.3.2,3,5,6,7,8,9 RI.4.2,3,5,6,7,8,9 RI.5.2,3,5,6,7,8,9 RI.6.2,3,5,6,7,8 RI.7.2,3,5,6,8,9 RI.8.2,3,5,6,7,8,9 | 11 | 11–16 |
| Vocabulary | 5 | 5–8 | L.5.4–L.5.6 | VOCABULARY | 7 | L.K.4-6; RL.K.4; RI.K.4 L.1.4-6; RL.1.4; RI.1.4 L.2.4-6; RL.2.4; RI.2.4 L.3.4-6; RL.3.4; RI.3.4 L.4.4-6; RL.4.4; RI.4.4 L.5.4-6; RL.5.4; RI.5.4 L.6.4-6; RL.6.4; RI.6.4 L.7.4-6; RL.7.4; RI.7.4 L.8.4-6; RL.8.4; RI.8.4 | 11 | 11 |
| Language | 8 | 9–10 | L.5.1–L.5.3 | LANGUAGE: GRAMMAR | 5 | L.K.1, L.1.1, L.2.1 L.3.1, L.4.1, L.5.1 L.6.1, L.7.1, L.8.1 L.9-10.1, L.11-12.1 | 9 | 9 |
| | | | | LANGUAGE: MECHANICS | 5 | L.K.2, L.1.2, L.2.2 L.3.2, L.4.2, L.5.2 L.6.2, L.7.2, L.8.2 L.9-10.2, L.11-12.2 | 9 | 9 |
| Writing | 9 (1 Hand-Scored Constructed Response) | 11–12 | W.5.1–W.5.5; W.5.7–W.5.9 | WRITING: WRITE/REVISE | 1 | W.K.1-8 W.1.1-8 W.2.1-8; L.2.3 W.3.1-W.3.5; W.3.7-W.3.8; L.3.3 W.4.1-5; W.4.7-W.4.9; L.4.3 W.5.1-5; W.5.7-8; L.5.3 W.6.1-5; W.6.7-8; L.6.3 W.7.1-5; W.7.7-8; L.7.3 W.8.1-5; W.8.7-8; L.8.3 W.9-10.1-5; W.9-10.7-8; L.9-10.3 W.11-12.1-8; L.11-12.3 | 9 | 9–11 |
| Item Count Contributing to AK STAR Scale Score | 40 + 1 Constructed Response | | | Target Additional Item Count Contributing to Growth | 23 | | Field Test Items | 5 |
| Overall Item Count | | | | | | | | |
| 69 | | | | | | | | |

⁶ Due to the adaptive nature of the test engine, these numbers are targets rather than requirements.

⁷ Figure 2 can be useful in understanding how AK STAR uses Summative items and MAP Growth items to produce a single summative score and a suite of diagnostic scores by instructional areas

Grade
6 ELA

| Summative Scale Score | | | |
|----------------------------|----------------------------------------|-----------------------------|-------------------------------------|
| Assessed Content Standards | Target Item Count | Summative Points Per Strand | Assessed AK Standards |
| Reading Literature | 9–10 | 13–14 | RL.6.1– RL.6.6; RL.6.9 |
| Reading Informational Text | 10–12 | 10–14 | RI.6.1– RI.6.9 |
| Vocabulary | 4–6 | 5–8 | L.6.4–L.6.6 |
| Language | 7–9 | 7–12 | L.6.1–L.6.3 |
| Writing | 9 (1 Hand-Scored Constructed Response) | 11–12 | W.6.1– W.6.5; W.6.7- W.6.9 |

| Additional Growth Items for Instructional Areas | | |
|-------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Instructional Areas | Target Item Count | Aligned AK Standards |
| LITERARY TEXT | 2–3 | RL.3.2,3,5,6,7,9 RL.4.2,3,5,6,7,9 RL.5.2,3,5,6,7,9 RL.6.2,3,5,6,9 RL.7.2,3,5,6,9 RL.8.2,3,5,6 RL.9-10.2,3,5,6,9 RL.11-12.2,3,5,6,9 |
| INFORMATIONAL TEXT | 1–2 | RI.3.2,3,5,6,7,8,9 RI.4.2,3,5,6,7,8,9 RI.5.2,3,5,6,7,8,9 RI.6.2,3,5,6,7,8 RI.7.2,3,5,6,8,9 RI.8.2,3,5,6,7,8,9 RI.9-10.2,3,5,6,8,9 RI.11-12.2,3,5,6,7,8,9 |
| VOCABULARY | 6–8 | L.3.4-6; RL.3.4; RI.3.4 L.4.4-6; RL.4.4; RI.4.4 L.5.4-6; RL.5.4; RI.5.4 L.6.4-6; RL.6.4; RI.6.4 L.7.4-6; RL.7.4; RI.7.4 L.8.4-6; RL.8.4; RI.8.4 L.9-10.4-6; RL.9-10.4; RI.9-10.4 L.11-12.4-6; RL.11-12.4; RI.11-12.4 |
| LANGUAGE: GRAMMAR | 4–5 | L.K.1, L.1.1, L.2.1 L.3.1, L.4.1, L.5.1 L.6.1, L.7.1, L.8.1 L.9-10.1, L.11-12.1 |
| LANGUAGE: MECHANICS | 4–5 | L.K.2, L.1.2, L.2.2 L.3.2, L.4.2, L.5.2 L.6.2, L.7.2, L.8.2 L.9-10.2, L.11-12.2 |
| WRITING: WRITE/REVISE | 1 | W.K.1-8 W.1.1-8 W.2.1-8; L.2.3 W.3.1-W.3.5; W.3.7-W.3.8; L.3.3 W.4.1-5; W.4.7-W.4.9; L.4.3 W.5.1-5; W.5.7-8; L.5.3 W.6.1-5; W.6.7-8; L.6.3 W.7.1-5; W.7.7-8; L.7.3 W.8.1-5; W.8.7-8; L.8.3 W.9-10.1-5; W.9-10.7-8; L.9-10.3 W.11-12.1-8; L.11-12.3 |

| Guidelines for Overall RIT Score Items ⁸ | | Total AK STAR Points |
|-----------------------------------------------------|----------------------------|----------------------|
| Target Item Count per IA ⁹ | Target Range Points per IA | |
| 12 | 12–16 | |
| 12 | 12–13 | |
| 12 | 12 | |
| 9 | 9 | |
| 9 | 9–11 | |
| 9 | 9–10 | |

| | |
|------------------------------------------------|-----------------------------|
| Item Count Contributing to AK STAR Scale Score | 42 + 1 Constructed Response |
|------------------------------------------------|-----------------------------|

| | |
|-----------------------------------------------------|----|
| Target Additional Item Count Contributing to Growth | 21 |
|-----------------------------------------------------|----|

| | |
|------------------|---|
| Field Test Items | 5 |
|------------------|---|

| | |
|--------------------|--|
| Overall Item Count | |
| 69 | |

⁸ Due to the adaptive nature of the test engine, these numbers are targets rather than requirements.

⁹ Figure 2 can be useful in understanding how AK STAR uses Summative items and MAP Growth items to produce a single summative score and a suite of diagnostic scores by instructional areas

Grade
7 ELA

| Summative Scale Score | | | |
|----------------------------|-------------------------------|-----------------------------|-------------------------------------|
| Assessed Content Standards | Target Item Count | Summative Points Per Strand | Assessed AK Standards |
| Reading Literature | 7–9 | 9–10 | RL.7.1– RL.7.6; RL.7.9 |
| Reading Informational Text | 10–12 | 11–16 | RI.7.1– RI.7.9 |
| Vocabulary | 5–6 | 6–7 | L.7.4–L.7.6 |
| Language | 8–10 | 10–14 | L.7.1–L.7.3 |
| Writing | 9–11 (1 Constructed Response) | 11–14 | W.7.1– W.7.5; W.7.7– W.7.9 |

| Additional Growth Items for Instructional Areas | | |
|-------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Instructional Areas | Target Item Count | Aligned AK Standards |
| LITERARY TEXT | 4–5 | RL.3.2,3,5,6,7,9 RL.4.2,3,5,6,7,9 RL.5.2,3,5,6,7,9 RL.6.2,3,5,6,9 RL.7.2,3,5,6,9 RL.8.2,3,5,6,9 RL.9-10.2,3,5,6,9 RL.11-12.2,3,5,6,9 |
| INFORMATIONAL TEXT | 1–2 | RI.3.2,3,5,6,7,8,9 RI.4.2,3,5,6,7,8,9 RI.5.2,3,5,6,7,8,9 RI.6.2,3,5,6,7,8 RI.7.2,3,5,6,8,9 RI.8.2,3,5,6,7,8,9 RI.9-10.2,3,5,6,8,9 RI.11-12.2,3,5,6,7,8,9 |
| VOCABULARY | 7–8 | L.3.4-6; RL.3.4; RI.3.4 L.4.4-6; RL.4.4; RI.4.4 L.5.4-6; RL.5.4; RI.5.4 L.6.4-6; RL.6.4; RI.6.4 L.7.4-6; RL.7.4; RI.7.4 L.8.4-6; RL.8.4; RI.8.4 L.9-10.4-6; RL.9-10.4; RI.9-10.4 L.11-12.4-6; RL.11-12.4; RI.11-12.4 |
| LANGUAGE: GRAMMAR | 3–5 | L.K.1, L.1.1, L.2.1 L.3.1, L.4.1, L.5.1 L.6.1, L.7.1, L.8.1 L.9-10.1, L.11-12.1 |
| LANGUAGE: MECHANICS | 3–5 | L.K.2, L.1.2, L.2.2 L.3.2, L.4.2, L.5.2 L.6.2, L.7.2, L.8.2 L.9-10.2, L.11-12.2 |
| WRITING: WRITE/REVISE | 0–1 | W.K.1-8 W.1.1-8 W.2.1-8; L.2.3 W.3.1-W.3.5; W.3.7-W.3.8; L.3.3 W.4.1-5; W.4.7-W.4.9; L.4.3 W.5.1-5; W.5.7-8; L.5.3 W.6.1-5; W.6.7-8; L.6.3 W.7.1-5; W.7.7-8; L.7.3 W.8.1-5; W.8.7-8; L.8.3 W.9-10.1-5; W.9-10.7-8; L.9-10.3 W.11-12.1-8; L.11-12.3 |

| Guidelines for Overall RIT Score Items ¹⁰ | Total AK STAR Points |
|------------------------------------------------------|----------------------------|
| Target Item Count per IA ¹¹ | Target Range Points per IA |
| 12 | 12–14 |
| 12 | 12–16 |
| 12 | 12–13 |
| 9 | 9 |
| 9 | 9–13 |
| 9 | 9 |

| | |
|------------------------------------------------|-----------------------------|
| Item Count Contributing to AK STAR Scale Score | 42 + 1 Constructed Response |
|------------------------------------------------|-----------------------------|

| | |
|-----------------------------------------------------|----|
| Target Additional Item Count Contributing to Growth | 21 |
|-----------------------------------------------------|----|

| | |
|------------------|---|
| Field Test Items | 5 |
|------------------|---|

| | |
|--------------------|--|
| Overall Item Count | |
| 69 | |

¹⁰ Due to the adaptive nature of the test engine, these numbers are targets rather than requirements.

¹¹ Figure 2 can be useful in understanding how AK STAR uses Summative items and MAP Growth items to produce a single summative score and a suite of diagnostic scores by instructional areas

Grade
8 ELA

| Summative Scale Score | | | | Additional Growth Items for Instructional Areas | | | Guidelines for Overall RIT Score Items ¹² | Total AK STAR Points |
|------------------------------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|----------------------------|
| Assessed Content Standards | Target Item Count | Summative Points Per Strand | Assessed AK Standards | Instructional Areas | Target Item Count | Aligned AK Standards | Target Item Count per IA ¹³ | Target Range Points per IA |
| Reading Literature | 7–9 | 10–14 | RL.8.1– RL.8.6; RL.8.9 | LITERARY TEXT | 3–5 | RL.3.2,3,5,6,7,9 RL.4.2,3,5,6,7,9 RL.5.2,3,5,6,7,9 RL.6.2,3,5,6,9 RL.7.2,3,5,6,9 RL.8.2,3,5,6,9 RL.9-10.2,3,5,6,9 RL.11-12.2,3,5,6,9 | 12 | 12–17 |
| Reading Informational Text | 10–12 | 14–17 | RI.8.1– RI.8.9 | INFORMATIONAL TEXT | 1–2 | RI.3.2,3,5,6,7,8,9 RI.4.2,3,5,6,7,8,9 RI.5.2,3,5,6,7,8,9 RI.6.2,3,5,6,7,8 RI.7.2,3,5,6,8,9 RI.8.2,3,5,6,7,8,9 RI.9-10.2,3,5,6,8,9 RI.11-12.2,3,5,6,7,8,9 | 12 | 12–16 |
| Vocabulary | 5 | 5–7 | L.8.4–L.8.6 | VOCABULARY | 7 | L.3.4-6; RL.3.4; L.4.4-6; RL.4.4; L.5.4-6; RL.5.4; L.6.4-6; RL.6.4; L.7.4-6; RL.7.4; L.8.4-6; RL.8.4; L.9-10.4-6; RL.9-10.4; L.11-12.4-6; RL.11-12.4; RI.11-12.4 | 12 | 12–13 |
| Language | 8–10 | 8–11 | L.8.1–L.8.3 | LANGUAGE: GRAMMAR | 3–5 | L.K.1, L.1.1, L.2.1 L.3.1, L.4.1, L.5.1 L.6.1, L.7.1, L.8.1 L.9-10.1, L.11-12.1 | 9 | 9 |
| | | | | LANGUAGE: MECHANICS | 3–5 | L.K.2, L.1.2, L.2.2 L.3.2, L.4.2, L.5.2 L.6.2, L.7.2, L.8.2 L.9-10.2, L.11-12.2 | 9 | 9 |
| Writing | 9–11 (1 Constructed Response) | 13–16 | W.8.1– W.8.5; W.8.7– W.8.9 | WRITING: WRITE/REVISE | 0–1 | W.K.1-8 W.1.1-8 W.2.1-8; L.2.3 W.3.1-W.3.5; W.3.7-W.3.8; L.3.3 W.4.1-5; W.4.7-W.4.9; L.4.3 W.5.1-5; W.5.7-8; L.5.3 W.6.1-5; W.6.7-8; L.6.3 W.7.1-5; W.7.7-8; L.7.3 W.8.1-5; W.8.7-8; L.8.3 W.9-10.1-5; W.9-10.7-8; L.9-10.3 W.11-12.1-8; L.11-12.3 | 9 | 9–11 |
| Item Count Contributing to AK STAR Scale Score | 42 + 1 Constructed Response | | | Target Additional Item Count Contributing to Growth | 21 | | Field Test Items | 5 |
| Overall Item Count | | | | | | | | |
| 69 | | | | | | | | |

¹² Due to the adaptive nature of the test engine, these numbers are targets rather than requirements.

¹³ Figure 2 can be useful in understanding how AK STAR uses Summative items and MAP Growth items to produce a single summative score and a suite of diagnostic scores by instructional areas

Grade
9 ELA

| Summative Scale Score | | | |
|----------------------------|--------------------------------------|-----------------------------|-------------------------------------------------------------|
| Assessed Content Standards | Target Item Count | Summative Points Per Strand | Assessed AK Standards |
| Reading Literature | 6–8 | 8–12 | RL.9-10.1– RL.9-10.6; RL.9-10.9 |
| Reading Informational Text | 12–14 | 19–23 | RI.9-10.1– RI.9–10.9 |
| Vocabulary | 5 | 5–6 | L.9-10.4– L.9-10.6 |
| Language | 8–10 | 11–13 | L.9-10.1– L.9-10.3 |
| Writing | 10–11 (1 Constructed Response) | 12–14 | W.9-10.1– W.9- 10.1.5; W.9- 10.1.7- W.9-10.9 |

| Additional Growth Items for Instructional Areas | | |
|-------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Instructional Areas | Target Item Count | Aligned AK Standards |
| LITERARY TEXT | 4–6 | RL.3.2,3,5,6,7,9 RL.4.2,3,5,6,7,9 RL.5.2,3,5,6,7,9 RL.6.2,3,5,6,9 RL.7.2,3,5,6,9 RL.8.2,3,5,6,9 RL.9-10.2,3,5,6,9 RL.11-12.2,3,5,6,9 |
| INFORMATIONAL TEXT | N/A | RI.3.2,3,5,6,7,8,9 RI.4.2,3,5,6,7,8,9 RI.5.2,3,5,6,7,8,9 RI.6.2,3,5,6,7,8 RI.7.2,3,5,6,8,9 RI.8.2,3,5,6,7,8,9 RI.9-10.2,3,5,6,8,9 RI.11-12.2,3,5,6,7,8,9 |
| VOCABULARY | 7 | L.3.4-6; RL.3.4; RI.3.4 L.4.4-6; RL.4.4; RI.4.4 L.5.4-6; RL.5.4; RI.5.4 L.6.4-6; RL.6.4; RI.6.4 L.7.4-6; RL.7.4; RI.7.4 L.8.4-6; RL.8.4; RI.8.4 L.9-10.4-6; RL.9-10.4; RI.9-10.4 L.11-12.4-6; RL.11-12.4; RI.11-12.4 |
| LANGUAGE: GRAMMAR | 4–5 | L.K.1, L.1.1, L.2.1 L.3.1, L.4.1, L.5.1 L.6.1, L.7.1, L.8.1 L.9-10.1, L.11-12.1 |
| LANGUAGE: MECHANICS | 4–5 | L.K.2, L.1.2, L.2.2 L.3.2, L.4.2, L.5.2 L.6.2, L.7.2, L.8.2 L.9-10.2, L.11-12.2 |
| WRITING: WRITE/REVISE | N/A | W.K.1-8 W.1.1-8 W.2.1-8; L.2.3 W.3.1-W.3.5; W.3.7-W.3.8; L.3.3 W.4.1-5; W.4.7-W.4.9; L.4.3 W.5.1-5; W.5.7-8; L.5.3 W.6.1-5; W.6.7-8; L.6.3 W.7.1-5; W.7.7-8; L.7.3 W.8.1-5; W.8.7-8; L.8.3 W.9-10.1-5; W.9-10.7-8; L.9-10.3 W.11-12.1-8; L.11-12.3 |

| Guidelines for Overall RIT Score Items ¹⁴ | Total AK STAR Points |
|------------------------------------------------------|----------------------------|
| Target Item Count per IA ¹⁵ | Target Range Points per IA |
| 12 | 12–16 |
| 12 | 12–18 |
| 12 | 12 |
| 9 | 9 |
| 9 | 9–10 |
| 9 | 9 |

| | |
|------------------------------------------------|--------------------------------|
| Item Count Contributing to AK STAR Scale Score | 44 + 1 Constructed Response |
|------------------------------------------------|--------------------------------|

| | |
|-----------------------------------------------------|----|
| Target Additional Item Count Contributing to Growth | 20 |
|-----------------------------------------------------|----|

| | |
|------------------|---|
| Field Test Items | 5 |
|------------------|---|

| | |
|--------------------|--|
| Overall Item Count | |
| 70 | |

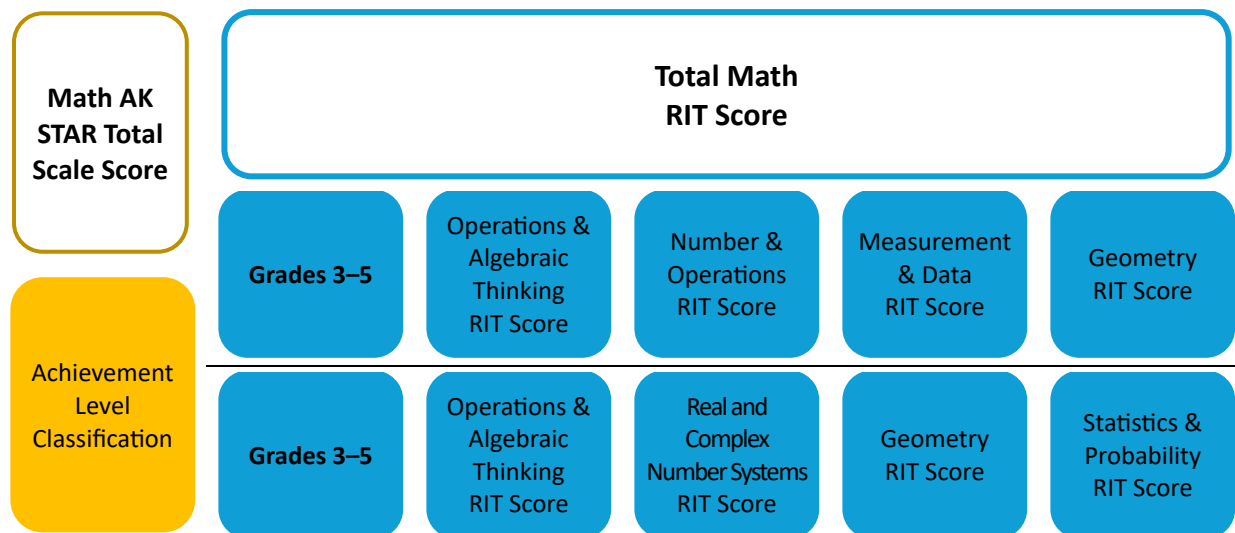
¹⁴ Due to the adaptive nature of the test engine, these numbers are targets rather than requirements.

¹⁵ Figure 2 can be useful in understanding how AK STAR uses Summative items and MAP Growth items to produce a single summative score and a suite of diagnostic scores by instructional areas

Mathematics

The Mathematics test design presented in **Figure 6** shows the following reporting categories. These scores are reported at the individual student level and aggregated into traditional reporting groups (e.g., grade, school, district). Mathematics is represented in two distinct sets of design blueprints to match the change in Instructional Areas between grades 3–5 and grades 6–9. The following design outlines this difference in the grade spans.

Figure 6. Mathematics Score Reporting Categories



The Mathematics AK STAR score reports include two overall reporting elements used for state and federal accountability purposes: 1) Math AK STAR Total Scale Score, and 2) Achievement Level Classification. The Summative component of the test is used to generate the accountability scores and classifications.

The test design also produces an additional domain score on the same score scale that MAP Growth¹⁶ uses: Total Math RIT Score. This score—and its related sub-scores—are derived from items in the Summative component as well as the additional items from the Growth component in this domain. This score—and its related sub-scores—are intended to support classroom instruction and do not contribute to state or federal accountability requirements. The three overall domain scores or classifications are listed in Table 4.

¹⁶ Math AK STAR aligns with MAP Growth Math 2–5 (grades 3–5) and with MAP Growth Math 6+ (grades 6–9).

Table 4. Mathematics Domain Scores and Classifications

| Total Scores | Description |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Math AK STAR Total Scale Score | Summary scale score generated from all eligible Summative items |
| Achievement Level Classification | Classification of student performance: Needs Support, Approaching Proficient, Proficient, and Advanced |
| Total Math RIT Score | Summary scale score generated from all contributing Growth math items (including Summative items that also contribute to this score) |

The sub-scores in the Mathematics test design are compatible with the MAP Growth Instructional Areas. In the AK STAR, an Instructional Area RIT score is generated in the sub-score instructional areas listed in **Table 5** in grades 3–5 and in Table 6 for grades 6–9.

Table 5. Mathematics Instructional Areas for Grades 3–5

| Math Grades 3–5 | |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operations and Algebraic Thinking | <ul style="list-style-type: none"> • Represent and Solve Problems • Analyze Patterns and Relationships |
| Number and Operations | <ul style="list-style-type: none"> • Understand Place Value, Counting, and Cardinality • Number and Operations in Base Ten • Number and Operations—Fractions |
| Measurement and Data | <ul style="list-style-type: none"> • Geometric Measurement and Problem Solving • Represent and Interpret Data |
| Geometry | <ul style="list-style-type: none"> • Reason with Shapes, Attributes, and Coordinate Plane |

Table 6. Mathematics Instructional Areas for Grades 6–9

| Math Grades 6–9 | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operations and Algebraic Thinking | <ul style="list-style-type: none"> • Expressions and Equations • Use Functions to Model Relationships |
| The Real and Complex Number Systems | <ul style="list-style-type: none"> • Ratios and Proportional Relationships • Perform Operations • Extend and Use Properties |
| Geometry | <ul style="list-style-type: none"> • Geometric Measurement and Relationships • Congruence, Similarity, Right Triangles, & Trig |
| Statistics and Probability | <ul style="list-style-type: none"> • Interpreting Categorical and Quantitative Data • Using Sampling and Probability to Make Decisions |

Each item in the Summative component of the Math AK STAR focuses on either the content defined by the state standards or the mathematical practices of argumentation and modeling. The test blueprints shows the Argumentation and Modeling tasks as separate content categories. While Argumentation and Modeling is not its own content strand within the blueprint, the two CRs are tied to Argumentation and Modeling. These items will align to other content strands.

Each Math AK STAR test includes three embedded Argumentation tasks and three embedded Modeling tasks (four each in Grade 9), with one human-scored constructed-response task each for Argumentation and Modeling.

The test blueprints that follow describe the content assessed in the Summative component, including the number of items contributing to the Math AK STAR Total Scale Score, as well as the additional items contributing to the Total and Instructional Area RIT scores in the Growth component. The items in the Summative component are multiple-choice and technology-enhanced items, each worth 1, 2, or 3 points, and the short constructed-response items are worth up to 3 points (grades 3–5) or 4 points (grades 6–9).

The alignment of both components is illustrated in **Figure 7**. The left side of each test blueprint shows the content assessed in the Summative component, including the target number of items per strand and the range of possible points, which would depend on the adaptive selection of 1-, 2-, and 3-point items and the alignment of the CR tasks for Argumentation and Modeling. The right side of each test blueprint shows the additional Growth items that contribute to the Instructional Area RIT scores. In cases where no additional Growth items are needed, as is the case with Number and Operations in Grade 5, the target additional item count is presented as “N/A.” Since Geometry is not part of the Summative component in Grade 9, those item counts also say “N/A,” and all the items contributing to the Geometry Instructional Area RIT score are Growth items.

Below the Summative Component and Growth Component you can see a breakdown of overall item counts for summative component, growth component, field test items and overall item count.

Figure 7. Mathematics Test Blueprint

Grade 4
Math

| Summative Scale Score | | | |
|---------------------------------|-------------------------|---------------------------------------------------------|--------------------------------------------|
| Assessed Content Standards | Target Item Count | Summative Points Per Strand | Assessed AK Standards |
| Operations & Algebraic Thinking | 5 | 5–9 | 4.OA.1–4.OA.5 |
| Number & Operations | 14 | 14–18 | 4.NBT.1–4.NBT.6; 4.NF.1–4.NF.7 |
| Measurement & Data | 6 | 6–9 | 4.MD.1–4.MD.3; 4.MD.5; 4.MD.7–4.MD.9 |
| Geometry | 6 | 7–9 | 4.G.1–4.G.3 |
| Argumentation & Modeling | 2 Constructed Responses | These items are included in the above Content Standards | |

| | |
|------------------------------------------------|------------------------------|
| Item Count Contributing to AK STAR Scale Score | 29 + 2 Constructed Responses |
|------------------------------------------------|------------------------------|

| Additional Growth Items for Instructional Areas | | |
|-------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Instructional Areas | Target Item Count | Aligned AK Standards |
| OPERATIONS & ALGEBRAIC THINKING | 15 | K.OA.1–K.OA.5 1.OA.1–1.OA.6 2.OA.1–2.OA.4 3.OA.1–3.OA.9 4.OA.1–4.OA.5 5.OA.1–5.OA.3 6.EE.1–6.EE.9; 6.RP.3 7.EE.1–7.EE.4; 7.EE.1–7.EE.3 8.EE.5; 8.EE.7b |
| NUMBER & OPERATIONS | 15 | K.CC.1–K.CC.7; K.NBT.1 1.NBT.1–1.NBT.6 2.NBT.1–2.NBT.8 3.NF.1–3.NF.3 4.NF.1–4.NF.7 5.NF.1–5.NF.7 6.NS.1–6.NS.3 |
| MEASUREMENT & DATA | 9 | K.MD.2–K.MD.3 1.MD.1–1.MD.4 2.MD.1–2.MD.10 3.MD.1–3.MD.8 4.MD.1–4.MD.7 5.MD.1–5.MD.5 6.G.1–6.G.2; 6.SP.4 7.G.6; 7.SP.2 |
| GEOMETRY | 9 | K.G.1–K.G.6 3.G.1–3.G.2 4.G.1–4.G.3 5.G.1–5.G.4 6.G.3–6.G.4; 6.NS.6c 8.G.5 |

| Guidelines for Overall RIT Score Items ¹⁹ | Total AK STAR Points |
|------------------------------------------------------|----------------------------|
| Target Item Count per IA ²⁰ | Target Range Points per IA |
| 15 | 15 |
| 15 | 15–17 |
| 15 | 15–16 |
| 15 | 15–16 |

| | |
|-----------------------------------------------------|----|
| Target Additional Item Count Contributing to Growth | 29 |
|-----------------------------------------------------|----|

| | |
|------------------|---|
| Field Test Items | 5 |
|------------------|---|

Overall Item Count

65

Figure 8 below displays the number of Math total items for each grade level.

Figure 8. Math Total Number of Items

| Grade Level | Math Total Items |
|-------------|------------------|
| 3 | 65 |
| 4 | 65 |
| 5 | 66 |
| 6 | 66 |
| 7 | 65 |
| 8 | 66 |
| 9 | 65 |

Grade 3
Math

| Summative Scale Score | | | |
|---------------------------------|----------------------------|---------------------------------------------------------|----------------------------------------------------|
| Assessed Content Standards | Target Item Count | Summative Points Per Strand | Assessed AK Standards |
| Operations & Algebraic Thinking | 11 | 11–15 | 3.OA.1–3.OA.9 |
| Number & Operations | 8 | 8–12 | 3.NBT.1–3.NBT.3; 3.NF.1–3.NF.3 |
| Measurement & Data | 10 | 10–12 | 3.MD.1–3.MD.2; 3.MD.4–3.MD.5; 3.MD.7–3.MD.10 |
| Geometry | 3 | 3 | 3.G.1–3.G.2 |
| Argumentation & Modeling | 2 Constructed Responses | These items are included in the above Content Standards | |

| | |
|------------------------------------------------|------------------------------------|
| Item Count Contributing to AK STAR Scale Score | 30 + 2 Constructed Responses |
|------------------------------------------------|------------------------------------|

| Additional Growth Items for Instructional Areas | | |
|-------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Instructional Areas | Target Item Count | Aligned AK Standards |
| OPERATIONS & ALGEBRAIC THINKING | 4 | K.OA.1–K.OA.5 1.OA.1–1.OA.6 2.OA.1–2.OA.4 3.OA.1–3.OA.9 4.OA.1–4.OA.5 5.OA.1–5.OA.3 6.EE.2–6.EE.9; 6.RP.3 7.EE.1–7.EE.4; 7.EE.1–7.EE.3 8.EE.5; 8.EE.7b |
| NUMBER & OPERATIONS | 7 | K.CC.1–K.CC.7; K.NBT.1 1.NBT.1–1.NBT.6 2.NBT.1–2.NBT.8 3.NBT.1–3.NBT.3; 3.NF.1–3.NF.3 4.NBT.1–4.NBT.6; 4.NF.1–4.NF.4 5.NBT.1–5.NBT.7; 5.NF.1–5.NF.7 6.NS.1–6.NS.7; 6.EE.1 7.NS.1–7.NS.3 |
| MEASUREMENT & DATA | 5 | K.MD.2–K.MD.3 1.MD.1–1.MD.4 2.MD.1–2.MD.10 3.MD.1–3.MD.2; 3.MD.4–3.MD.5; 3.MD.7–3.MD.8 4.MD.1–4.MD.3; 4.MD.5; 4.MD.7 5.MD.1–5.MD.5 6.G.1–6.G.2; 6.SP.4 7.G.6; 7.SP.2 |
| GEOMETRY | 12 | K.G.1–K.G.6 1.G.1–1.G.3 2.G.1–2.G.3 3.G.1–3.G.2 4.G.1–4.G.3 5.G.1–5.G.4 6.G.3–6.G.4; 6.NS.6c 7.G.3 8.G.5 |

| Guidelines for Overall RIT Score Items ¹⁷ | Total AK STAR Points |
|------------------------------------------------------|----------------------------|
| Target Item Count per IA ¹⁸ | Target Range Points per IA |
| 15 | 15 |
| 15 | 15 |
| 15 | 15 |
| 15 | 15 |

| | |
|-----------------------------------------------------|----|
| Target Additional Item Count Contributing to Growth | 28 |
|-----------------------------------------------------|----|

| | |
|------------------|---|
| Field Test Items | 5 |
|------------------|---|

| | |
|--------------------|--|
| Overall Item Count | |
| 65 | |

¹⁷ Due to the adaptive nature of the test engine, these numbers are targets rather than requirements.

¹⁸ Figure 2 can be useful in understanding how AK STAR uses Summative items and MAP Growth items to produce a single summative score and a suite of diagnostic scores by instructional areas

Grade 4
Math

| Summative Scale Score | | | |
|--------------------------------------------|-----------------------------------|----------------------------------------------------------------|----------------------------------------------------|
| Assessed Content Standards | Target Item Count | Summative Points Per Strand | Assessed AK Standards |
| Operations & Algebraic Thinking | 5 | 5–9 | 4.OA.1– 4.OA.5 |
| Number & Operations | 14 | 14–18 | 4.NBT.1– 4.NBT.6; 4.NF.1– 4.NF.7 |
| Measurement & Data | 6 | 6–9 | 4.MD.1– 4.MD.3; 4.MD.5; 4.MD.7– 4.MD.9 |
| Geometry | 6 | 7–9 | 4.G.1– 4.G.3 |
| Argumentation & Modeling | 2 <i>Constructed Responses</i> | <i>These items are included in the above Content Standards</i> | |

| | |
|------------------------------------------------|------------------------------------|
| Item Count Contributing to AK STAR Scale Score | 29 + 2 Constructed Responses |
|------------------------------------------------|------------------------------------|

| Additional Growth Items for Instructional Areas | | |
|-------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Instructional Areas | Target Item Count | Aligned AK Standards |
| OPERATIONS & ALGEBRAIC THINKING | 10 | K.OA.1–K.OA.5 1.OA.1–1.OA.6 2.OA.1–2.OA.4 3.OA.1–3.OA.9 4.OA.1–4.OA.5 5.OA.1–5.OA.3 6.EE.2–6.EE.9; 6.RP.3 7.EE.1–7.EE.4; 7.EE.1–7.EE.3 8.EE.5; 8.EE.7b |
| NUMBER & OPERATIONS | 1 | K.CC.1–K.CC.7; K.NBT.1 1.NBT.1–1.NBT.6 2.NBT.1–2.NBT.8 3.NBT.1–3.NBT.3; 3.NF.1– 3.NF.3 4.NBT.1–4.NBT.6; 4.NF.1– 4.NF.4 5.NBT.1–5.NBT.7; 5.NF.1– 5.NF.7 6.NS.1–6.NS.7; 6.EE.1 7.NS.1–7.NS.3 |
| MEASUREMENT & DATA | 9 | K.MD.2–K.MD.3 1.MD.1–1.MD.4 2.MD.1–2.MD.10 3.MD.1–3.MD.2; 3.MD.4– 3.MD.5; 3.MD.7–3.MD.8 4.MD.1–4.MD.3; 4.MD.5; 4.MD.7 5.MD.1–5.MD.5 6.G.1–6.G.2; 6.SP.4 7.G.6; 7.SP.2 |
| GEOMETRY | 9 | K.G.1–K.G.6 3.G.1–3.G.2 4.G.1–4.G.3 5.G.1–5.G.4 6.G.3–6.G.4; 6.NS.6c 8.G.5 |

| Guidelines for Overall RIT Score Items ¹⁹ | Total AK STAR Points |
|------------------------------------------------------|----------------------------|
| Target Item Count per IA ²⁰ | Target Range Points per IA |
| 15 | 15 |
| 15 | 15–17 |
| 15 | 15–16 |
| 15 | 15–16 |

| | |
|-----------------------------------------------------|----|
| Target Additional Item Count Contributing to Growth | 29 |
|-----------------------------------------------------|----|

| | |
|------------------|---|
| Field Test Items | 5 |
|------------------|---|

| Overall Item Count | |
|--------------------|--|
| 65 | |

¹⁹ Due to the adaptive nature of the test engine, these numbers are targets rather than requirements.

²⁰ Figure 2 can be useful in understanding how AK STAR uses Summative items and MAP Growth items to produce a single summative score and a suite of diagnostic scores by instructional areas

Grade 5
Math

| Summative Scale Score | | | |
|---------------------------------|-------------------------|---------------------------------------------------------|-------------------------------------|
| Assessed Content Standards | Target Item Count | Summative Points Per Strand | Assessed AK Standards |
| Operations & Algebraic Thinking | 3 | 3–5 | 5.OA.1–5.OA.3 |
| Number & Operations | 16 | 17–21 | 5.NBT.1–5.NBT.7; 5.NF.1–5.NF.7 |
| Measurement & Data | 8 | 8–10 | 5.MD.1; 5.MD.3; 5.MD.5–5.MD.7 |
| Geometry | 5 | 5 | 5.G.1–5.G.4 |
| Argumentation & Modeling | 2 Constructed Responses | These items are included in the above Content Standards | |

| | |
|------------------------------------------------|---------------------------------|
| Item Count Contributing to AK STAR Scale Score | 30 + 2 Constructed Responses |
|------------------------------------------------|---------------------------------|

| Additional Growth Items for Instructional Areas | | |
|-------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Instructional Areas | Target Item Count | Aligned AK Standards |
| OPERATIONS & ALGEBRAIC THINKING | 12 | K.OA.1–K.OA.5 1.OA.1–1.OA.6 2.OA.1–2.OA.4 3.OA.1–3.OA.9 4.OA.1–4.OA.5 5.OA.1–5.OA.3 6.EE.2–6.EE.9; 6.RP.3 7.EE.1–7.EE.4; 7.EE.1–7.EE.3 8.EE.5; 8.EE.7b |
| NUMBER & OPERATIONS | N/A | K.CC.1–K.CC.7; K.NBT.1 1.NBT.1–1.NBT.6 2.NBT.1–2.NBT.8 3.NBT.1–3.NBT.3; 3.NF.1–3.NF.3 4.NBT.1–4.NBT.6; 4.NF.1–4.NF.4 5.NBT.1–5.NBT.7; 5.NF.1–5.NF.7 6.NS.1–6.NS.7; 6.EE.1 7.NS.1–7.NS.3 |
| MEASUREMENT & DATA | 7 | K.MD.2–K.MD.3 1.MD.1–1.MD.4 2.MD.1–2.MD.10 3.MD.1–3.MD.2; 3.MD.4 3.MD.5; 3.MD.7–3.MD.8 4.MD.1–4.MD.3; 4.MD.5; 4.MD.7 5.MD.1–5.MD.5 6.G.1–6.G.2; 6.SP.4 7.G.6; 7.SP.2 |
| GEOMETRY | 10 | K.G.1–K.G.6 4.G.1–4.G.3 5.G.1–5.G.4 6.G.3–6.G.4; 6.NS.6c 7.G.3 8.G.5 |

| Guidelines for Overall RIT Score Items ²¹ | Total AK STAR Points |
|------------------------------------------------------|----------------------------|
| Target Item Count per IA ²² | Target Range Points per IA |
| 15 | 15 |
| 15 | 15–16 |
| 15 | 15 |
| 15 | 15 |

| | |
|-----------------------------------------------------|----|
| Target Additional Item Count Contributing to Growth | 29 |
|-----------------------------------------------------|----|

| | |
|------------------|---|
| Field Test Items | 5 |
|------------------|---|

| | |
|--------------------|--|
| Overall Item Count | |
| 66 | |

²¹ Due to the adaptive nature of the test engine, these numbers are targets rather than requirements.

²² Figure 2 can be useful in understanding how AK STAR uses Summative items and MAP Growth items to produce a single summative score and a suite of diagnostic scores by instructional areas

Grade 6
Math

| Summative Scale Score | | | |
|----------------------------|-------------------------|---------------------------------------------------------|-----------------------|
| Assessed Content Standards | Target Item Count | Summative Points Per Strand | Assessed AK Standards |
| Ratio & Proportion | 8 | 8–15 | 6.RP.1–6.RP.3 |
| Number System | 8 | 8–14 | 6.NS.1–6.NS.8 |
| Expressions & Equations | 9 | 9–13 | 6.EE.1–6.EE.9 |
| Geometry | 6 | 6–7 | 6.G.1–6.G.4 |
| Statistics & Probability | 6 | 6 | 6.SP.1–6.SP.5 |
| Argumentation & Modeling | 2 Constructed Responses | These items are included in the above Content Standards | |

| | |
|------------------------------------------------|---------------------------------|
| Item Count Contributing to AK STAR Scale Score | 35 + 2 Constructed Responses |
|------------------------------------------------|---------------------------------|

| Additional Growth Items for Instructional Areas | | |
|-------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Instructional Areas | Target Item Count | Aligned AK Standards |
| REAL & COMPLEX NUMBER SYSTEMS | N/A | 3.NBT.2–3.NBT.3; 3.NF.2–3.NF.3; 3.OA.1–3.OA.8 4.NBT.4–4.NBT.6; 4.NF.1–4.NF.4 4.OA.1–4.OA.4 5.NBT.2–5.NBT.7; 5.NF.1–5.NF.7 6.NS.1–6.NS.8; 6.RP.1–6.RP.3 7.NS.1–7.NS.3; 7.RP.1–7.RP.3 8.NS.1–8.NS.2 HSN-CN; HSN-Q; HSN-RN |
| OPERATIONS & ALGEBRAIC THINKING | 6 | 3.OA.3–3.OA.9; 3.MD.7c 4.OA.2–4.OA.3; 4.NBT.5 5.OA.1–5.OA.3; 5.G.2; 5.NBT.2; 5.NF.2–5.NF.7 6.EE.1–6.EE.9 7.EE.1–7.EE.4 8.EE.1–8.EE.8; 8.F.1–8.F.5 HSA-APR; HSA-CED; HSA-REI; HSA-SSE; HSA-BF; HSA-IF; HSA-LE; HSA-TF |
| GEOMETRY | 9 | -3.MD.5; 3.MD.7-3.MD.8 4.G.1-4.G.3; 4.MD.1-4.MD.3 4.MD.5; 4.MD.7 5.G.2-5.G.4; 5.MD.3-5.MD.5; 5.NF.4b 6.G.1-6.G.4 7.G.1-7.G.6 8.G.1-8.G.9 HSG-C; HSG-CO; HSG-GMD; HSG-GPE; HSG-MG; HSG-SRT |
| STATISTICS & PROBABILITY | 9 | 5.MD.2 6.SP.1–6.SP.5 7.SP.1–7.SP.8 8.SP.1–8.SP.4 HSS-CP; HSS-IC; HSS-ID |

| Guidelines for Overall RIT Score Items ²³ | Total AK STAR Points |
|------------------------------------------------------|----------------------------|
| Target Item Count per IA ²⁴ | Target Range Points per IA |
| 15 | 15–16 |
| 15 | 15–16 |
| 15 | 15–16 |
| 15 | 15 |

| | |
|-----------------------------------------------------|----|
| Target Additional Item Count Contributing to Growth | 24 |
|-----------------------------------------------------|----|

| | |
|------------------|---|
| Field Test Items | 5 |
|------------------|---|

| |
|--------------------|
| Overall Item Count |
| 66 |

²³ Due to the adaptive nature of the test engine, these numbers are targets rather than requirements.

²⁴ Figure 2 can be useful in understanding how AK STAR uses Summative items and MAP Growth items to produce a single summative score and a suite of diagnostic scores by instructional areas

Grade 7
Math

| Summative Scale Score | | | |
|-------------------------------------|-------------------------|---------------------------------------------------------|-----------------------|
| Assessed Content Standards | Target Item Count | Summative Points Per Strand | Assessed AK Standards |
| Ratio & Proportion | 7 | 7–10 | 7.RP.1–7.RP.3 |
| Number System | 6 | 6–9 | 7.NS.1–7.NS.3 |
| Expressions & Equations | 9 | 10–16 | 7.EE.1–7.EE.4 |
| Geometry | 7 | 7–13 | 7.G.1–7.G.6 |
| Statistics & Probability | 7 | 7 | 7.SP.1–7.SP.8 |
| Argumentation & Modeling | 2 Constructed Responses | These items are included in the above Content Standards | |

| | |
|------------------------------------------------|---------------------------------|
| Item Count Contributing to AK STAR Scale Score | 34 + 2 Constructed Responses |
|------------------------------------------------|---------------------------------|

| Additional Growth Items for Instructional Areas | | |
|-------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Instructional Areas | Target Item Count | Aligned AK Standards |
| REAL & COMPLEX NUMBER SYSTEMS | 2 | 3.NBT.2–3.NBT.3; 3.NF.2–3.NF.3; 3.OA.1–3.OA.8 4.NBT.4–4.NBT.6; 4.NF.1–4.NF.4; 4.OA.1–4.OA.4 5.NBT.2–5.NBT.7; 5.NF.1–5.NF.7 6.NS.1–6.NS.8; 6.RP.1–6.RP.3 7.NS.1–7.NS.3; 7.RP.1–7.RP.3 8.NS.1–8.NS.2 HSN-CN; HSN-Q; HSN-RN |
| OPERATIONS & ALGEBRAIC THINKING | 6 | 3.OA.3–3.OA.9; 3.MD.7c 4.OA.2–4.OA.3; 4.NBT.5 5.OA.1–5.OA.3; 5.G.2; 5.NBT.2; 5.NF.2–5.NF.7 6.EE.1–6.EE.9 7.EE.1–7.EE.4 8.EE.1–8.EE.8; 8.F.1–8.F.5 HSA-APR; HSA-CED; HSA-REI; HSA-SSE; HSA-BF; HSA-IF; HSA-LE; HSA-TF |
| GEOMETRY | 8 | 3.MD.5; 3.MD.7–3.MD.8 4.MD.1–4.MD.3; 4.MD.5; 4.MD.7 5.G.2–5.G.4; 5.MD.3–5.MD.5; 5.NF.4b 6.G.1–6.G.4 7.G.1–7.G.6 8.G.1–8.G.9 HSG-C; HSG-CO; HSG-GMD; HSG-GPE; HSG-MG; HSG-SRT |
| STATISTICS & PROBABILITY | 8 | 5.MD.2 6.SP.1–6.SP.5 7.SP.1–7.SP.8 8.SP.1–8.SP.4 HSS-CP; HSS-IC; HSS-ID |

| Guidelines for Overall RIT Score Items ²⁵ | Total AK STAR Points |
|------------------------------------------------------|----------------------------|
| Target Item Count per IA ²⁶ | Target Range Points per IA |
| 15 | 15 |
| 15 | 15–16 |
| 15 | 15 |
| 15 | 15 |

| | |
|-----------------------------------------------------|----|
| Target Additional Item Count Contributing to Growth | 24 |
|-----------------------------------------------------|----|

| | |
|------------------|---|
| Field Test Items | 5 |
|------------------|---|

| | |
|--------------------|--|
| Overall Item Count | |
| 65 | |

²⁵ Due to the adaptive nature of the test engine, these numbers are targets rather than requirements.

²⁶ Figure 2 can be useful in understanding how AK STAR uses Summative items and MAP Growth items to produce a single summative score and a suite of diagnostic scores by instructional areas

Grade 8
Math

| Summative Scale Score | | | |
|-------------------------------------|--------------------------------|----------------------------------------------------------------|-----------------------|
| Assessed Content Standards | Target Item Count | Summative Points Per Strand | Assessed AK Standards |
| The Number System | 1 | 1 | 8.NS.1–8.NS.2 |
| Expressions & Equations | 10 | 10–17 | 8.EE.1–8.EE.8 |
| Functions | 11 | 11–14 | 8.F.1–8.F.5 |
| Geometry | 9 | 9–13 | 8.G.1–8.G.9 |
| Statistics & Probability | 5 | 5–6 | 8.SP.1–8.SP.4 |
| <i>Argumentation & Modeling</i> | <i>2 Constructed Responses</i> | <i>These items are included in the above Content Standards</i> | |

| | |
|------------------------------------------------|---------------------------------|
| Item Count Contributing to AK STAR Scale Score | 34 + 2 Constructed Responses |
|------------------------------------------------|---------------------------------|

| Additional Growth Items for Instructional Areas | | |
|-------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Instructional Areas | Target Item Count | Aligned AK Standards |
| REAL & COMPLEX NUMBER SYSTEMS | 11 | 3.NBT.2–3.NBT.3; 3.NF.2–3.NF.3; 3.OA.1–3.OA.8 4.NBT.4–4.NBT.6; 4.NF.1–4.NF.4; 4.OA.1–4.OA.4 5.NBT.2–5.NBT.7; 5.NF.1–5.NF.7 6.NS.1–6.NS.8; 6.RP.1–6.RP.3 7.NS.1–7.NS.3; 7.RP.1–7.RP.3 8.NS.1–8.NS.2 HSN-CN; HSN-Q; HSN-RN |
| OPERATIONS & ALGEBRAIC THINKING | N/A | 3.OA.3–3.OA.9; 3.MD.7c 4.OA.2–4.OA.3; 4.NBT.5 5.OA.1–5.OA.3; 5.G.2; 5.NBT.2; 5.NF.2–5.NF.7 6.EE.1–6.EE.9 7.EE.1–7.EE.4 8.EE.1–8.EE.8; 8.F.1–8.F.5 HSA-APR; HSA-CED; HSA-REI; HSA-SSE; HSA-BF; HSA-IF; HSA-LE; HSA-TF |
| GEOMETRY | 6 | 3.MD.5; 3.MD.7–3.MD.8 4.G.1–4.G.3; 4.MD.1–4.MD.3; 4.MD.5; 4.MD.7 5.G.2–5.G.4; 5.MD.3–5.MD.5; 5.NF.4b 6.G.1–6.G.4 7.G.1–7.G.6 8.G.1–8.G.9 HSG-C; HSG-CO; HSG-GMD; HSG-GPE; HSG-MG; HSG-SRT |
| STATISTICS & PROBABILITY | 8 | 5.MD.2 6.SP.1–6.SP.5 7.SP.1–7.SP.8 8.SP.1–8.SP.4 HSS-CP; HSS-IC; HSS-ID |

| Guidelines for Overall RIT Score Items ²⁷ | Total AK STAR Points |
|------------------------------------------------------|----------------------------|
| Target Item Count per IA ²⁸ | Target Range Points per IA |
| 12 | 12 |
| 21 | 21–31 |
| 15 | 15–19 |
| 13 | 13–14 |

| | |
|-----------------------------------------------------|----|
| Target Additional Item Count Contributing to Growth | 25 |
|-----------------------------------------------------|----|

| | |
|------------------|---|
| Field Test Items | 5 |
|------------------|---|

| | |
|--------------------|--|
| Overall Item Count | |
| 66 | |

²⁷ Due to the adaptive nature of the test engine, these numbers are targets rather than requirements.

²⁸ Figure 2 can be useful in understanding how AK STAR uses Summative items and MAP Growth items to produce a single summative score and a suite of diagnostic scores by instructional areas

Grade 9
Math

| Summative Scale Score | | | |
|----------------------------|-------------------------|---------------------------------------------------------|------------------------------------------------------------|
| Assessed Content Standards | Target Item Count | Summative Points Per Strand | Assessed AK Standards |
| The Number System | 4 | 5 | N-RN.1–3 N-Q.1–3 |
| Functions | 15 | 19–25 | F-IF.1–9 F-BF.1–4 F-LE.1–3,5 |
| Algebra | 15 | 15–26 | A-SSE.1–3 A-APR.1,3 A-CED.1–4 A-REI.1, 3–7, 10–12 |
| Geometry | N/A | N/A | N/A |
| Statistics & Probability | 4 | 4–7 | S-ID.1–3, 5–9 |
| Argumentation & Modeling | 2 Constructed Responses | These items are included in the above Content Standards | |

| | |
|------------------------------------------------|---------------------------------|
| Item Count Contributing to AK STAR Scale Score | 36 + 2 Constructed Responses |
|------------------------------------------------|---------------------------------|

| Additional Growth Items for Instructional Areas | | |
|-------------------------------------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Instructional Areas | Target Item Count | Aligned AK Standards |
| REAL & COMPLEX NUMBER SYSTEMS | 6 | 4.NBT.4–4.NBT.6; 4.NF.1–4.NF.4; 4.OA.1–4.OA.4 5.NBT.2–5.NBT.7; 5.NF.1–5.NF.7 6.NS.1–6.NS.8; 6.RP.1–6.RP.3 7.NS.1–7.NS.3; 7.RP.1–7.RP.3 8.NS.1–8.NS.2 N-CN; N-Q; N-RN |
| OPERATIONS & ALGEBRAIC THINKING | N/A | 3.OA.3–3.OA.9; 3.MD.7c 4.OA.2–4.OA.3; 4.NBT.5 5.OA.1–5.OA.3; 5.G.2; 5.NBT.2; 5.NF.2–5.NF.7 6.EE.1–6.EE.9 7.EE.1–7.EE.4 8.EE.1–8.EE.8; 8.F.1–8.F.5 A-APR; A-CED; A-REI; A-SSE; A-BF; A-IF; A-LE; A-TF |
| GEOMETRY | 10 | 3.MD.5; 3.MD.7–3.MD.8 5.NF.4b 6.G.1–6.G.4 7.G.1–7.G.6 8.G.1–8.G.9 G-C; G-CO; G-GMD; G-GPE; G-MG; G-SRT |
| STATISTICS & PROBABILITY | 6 | 5.MD.2 6.SP.1–6.SP.5 7.SP.1–7.SP.8 8.SP.1–8.SP.4 S-CP; S-IC; S-ID |

| Guidelines for Overall RIT Score Items ²⁹ | Total AK STAR Points |
|------------------------------------------------------|----------------------------|
| Target Item Count per IA ³⁰ | Target Range Points per IA |
| 10 | 11 |
| 30 | 34–51 |
| 10 | 10 |
| 10 | 10–13 |

| | |
|-----------------------------------------------------|----|
| Target Additional Item Count Contributing to Growth | 22 |
|-----------------------------------------------------|----|

| | |
|------------------|---|
| Field Test Items | 5 |
|------------------|---|

| | |
|--------------------|--|
| Overall Item Count | |
| 65 | |

²⁹ Due to the adaptive nature of the test engine, these numbers are targets rather than requirements.

³⁰ Figure 2 can be useful in understanding how AK STAR uses Summative items and MAP Growth items to produce a single summative score and a suite of diagnostic scores by instructional areas