



ALASKA COMPREHENSIVE SYSTEM OF STUDENT ASSESSMENT (CSSA)

SCIENCE STANDARDS BASED ASSESSMENT (SBA)

STUDENT REPORT

2015 SPRING

STUDENT NAME :
BIRTHDATE :

DISTRICT :
SCHOOL :

GRADE :
STATE ID NUMBER :
DISTRICT ID NUMBER :

NAME's Overall Performance

Student's Scale Score	Student's Proficiency Level	Proficient Scale Score
Science 353	Proficient	300

STANDARDS SKILL PERFORMANCE

This report provides a record of [REDACTED] test results on the science SBA.

Proficiency Levels

The science SBA is designed to measure knowledge and skills against state standards. Scores on these tests are grouped into four proficiency levels. The proficiency level chart shows the scale score ranges associated with each level. Typical characteristics for the proficiency levels can be found at <http://education.alaska.gov>.

Scale Score

The scale score earned by the student determines the student's performance level of proficient or not proficient on the science SBA. The points earned are converted into a scale score that takes into consideration the fact that some items that make up a standard on the test are more difficult than others. Therefore, a student can earn the same raw score on two standards and end up with two different scale scores. For this reason, you cannot divide the points earned by the points possible for a standard to derive the scale score.

Skills Performance

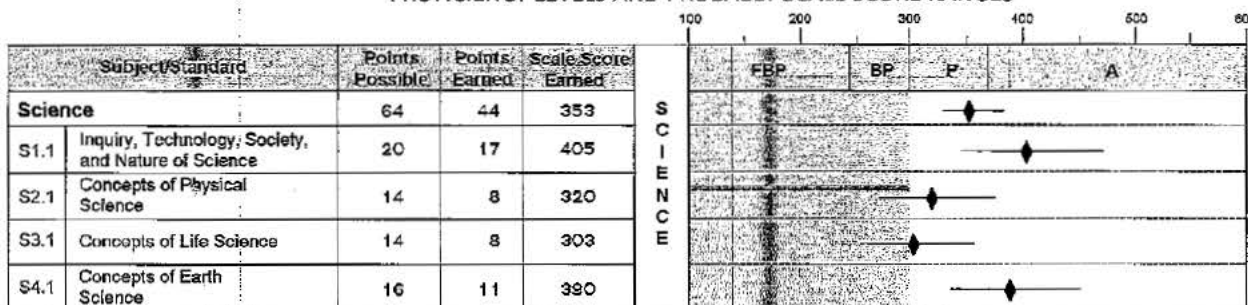
Science is composed of different skills. The chart on the right shows how [REDACTED] did on these skills.

Interpretation of Chart

Scale scores are represented by the diamond (♦). For each subject, the chart displays where the proficient cut score lies within the possible scale score range (100 - 600). Scores in the shaded area indicate not proficient, whereas scores in the non-shaded area indicate proficient.

For example, [REDACTED] scale score in Science is 353. Note that the diamond representing this score falls in the Proficient scale score range. If [REDACTED] were to take a similar test multiple times, the range of these scores would fall between 326 and 380 (as represented by the line) 80% of the time.

NAME's Performance by Standard PROFICIENCY LEVELS AND PROBABLY SCALE SCORE RANGES



Alaska's Science Proficiency Level Descriptors – 10th Grade

Proficiency Level	Science	Scale Score Ranges
Advanced	The student displays a highly developed conceptual understanding by designing and critiquing scientific investigations for accuracy, precision, and bias; utilizing an understanding of various historical perspectives and scientific advancements to construct scientific models; applying ecological principles and information gained from a variety of sources in developing solutions to future societal issues; modeling interactions between matter and energy; analyzing force vectors to predict the motion of objects; comparing and contrasting the structure and functions of organisms; predicting why things may change over time; and modeling and drawing conclusions about Earth, its geochemical cycles, and the theories that describe them.	Science 369 and Above
Proficient	The student demonstrates a basic conceptual understanding by designing and conducting controlled investigations; accurately interpreting and analyzing data; describing historical perspectives and scientific advancements; comparing information from a variety of sources; providing possible solutions to problems; identifying and using atomic structure and properties to describe interactions between matter and energy; describing laws of forces and motions; explaining the organization, structure, and function of organisms and how and why they may change over time; describing and explaining the interrelationships between living organisms and nonliving things; and describing and demonstrating Earth's geochemical cycles and the theories that explain Earth's systems.	Science 300 - 368
Below Proficient	The student shows a fundamental understanding by incorporating methods of experimental design into investigations; interpreting data; recognizing that scientific inquiry can be used to understand various historical perspectives and scientific advancements; recognizing that understanding information gained from a variety of sources can be used to solve problems; identifying atomic structure and properties; identifying the organization, structure, and function of organisms; describing how and why organisms may change over time; recognizing the interrelationships between living organisms and nonliving things; and recognizing Earth as a dynamic planet with geochemical cycles.	Science 245 - 299
Far Below Proficient	There is a significant need for additional instructional opportunities to achieve the proficient level.	Science 244 and Below

* Proficiency Level: A = Advanced, P = Proficient, BP = Below Proficient, FBP = Far Below Proficient

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2015 SPRING

STUDENT NAME :
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DISTRICT :
SCHOOL :

GRADE :
STATE ID NUMBER :
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NAME's Overall Performance

Student's Scale Score	Student's Proficiency Level	Proficient Scale Score
Science 392	Advanced	300

STANDARDS SKILL PERFORMANCE

This report provides a record of [REDACTED] test results on the science SBA.

Proficiency Levels

The science SBA is designed to measure knowledge and skills against state standards. Scores on these tests are grouped into four proficiency levels. The proficiency level chart shows the scale score ranges associated with each level. Typical characteristics for the proficiency levels can be found at <http://education.alaska.gov>.

Scale Score

The scale score earned by the student determines the student's performance level of proficient or not proficient on the science SBA. The points earned are converted into a scale score that takes into consideration the fact that some items that make up a standard on the test are more difficult than others. Therefore, a student can earn the same raw score on two standards and end up with two different scale scores. For this reason, you cannot divide the points earned by the points possible for a standard to derive the scale score.

Skills Performance

Science is composed of different skills. The chart on the right shows how [REDACTED] did on these skills.

Interpretation of Chart

Scale scores are represented by the diamond (♦). For each subject, the chart displays where the proficient cut score lies within the possible scale score range (100 - 600). Scores in the shaded area indicate not proficient, whereas scores in the non-shaded area indicate proficient.

For example, [REDACTED] scale score in Science is 392. Note that the diamond representing this score falls in the Advanced scale score range. If [REDACTED] were to take a similar test multiple times, the range of these scores would fall between 360 and 424 (as represented by the line) 80% of the time.

NAME's Performance by Standard

PROFICIENCY LEVELS AND PROBABLY SCALE SCORE RANGES

Subject/Standard	Points Possible	Points Earned	Scale Score Earned		FBP	BP	P	A
Science	62	51	392	S C I E N C E				
S1.1 Inquiry and Nature of Science	20	14	338					
S2.1 Concepts of Physical Science	14	12	451					
S3.1 Concepts of Life Science	16	15	451					
S4.1 Concepts of Earth Science	12	10	388					

Alaska's Science Proficiency Level Descriptors – 8th Grade

Proficiency Level	Science	Scale Score Ranges
Advanced	The student displays a highly developed conceptual understanding by applying experimental design processes to investigations; examining scientific inquiry; explaining nature of science concepts; analyzing and evaluating differing scientific explanations and models; explaining and comparing the structure and properties of matter; describing transformations, transfers and conservation of energy; drawing conclusions about the interactions between forces, motion, energy, and matter; explaining the structure, function, behavior, development, life cycles, and diversity of living organisms, their changes over time, and their relationships within environments; describing features of Earth; and interpreting and comparing the geochemical cycles, changes, and interactions between Earth and the solar system.	Science 359 and Above
Proficient	The student demonstrates a basic conceptual understanding by incorporating methods of experimental design into investigations; applying scientific inquiry; demonstrating nature of science concepts; analyzing differing scientific explanations and models; differentiating among the structure and properties of matter; identifying transformations, transfers and conservation of energy and describing the interactions between forces, motion, energy, and matter; recognizing the structure, function, behavior, development, life cycles, and diversity of living organisms, their change over time, and changes within environments; identifying features of Earth; and explaining geochemical cycles, changes, and interactions between Earth and the solar system.	Science 300 - 358
Below Proficient	The student shows a fundamental understanding by recognizing experimental design processes in an investigation; identifying components of scientific inquiry; describing nature of science concepts; recognizing and describing differing scientific explanations and models; recognizing the structure and properties of matter; recognizing that energy can be transformed, transferred and conserved; recognizing the nature of forces, motion, energy, and matter; identifying the basic biology of living organisms in the environment; recognizing features of Earth; and identifying geochemical cycles, changes, and interactions between Earth and the solar system.	Science 258 - 299
Far Below Proficient	There is a significant need for additional instructional opportunities to achieve the proficient level.	Science 257 and Below

* Proficiency Level: A = Advanced, P = Proficient, BP = Below Proficient, FBP = Far Below Proficient

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ALASKA COMPREHENSIVE SYSTEM OF STUDENT ASSESSMENT (CSSA)

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2015 SPRING

STUDENT NAME :
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NAME's Overall Performance

Student's Scale Score	Student's Proficiency Level	Proficient Scale Score
Science 304	Proficient	300

STANDARDS SKILL PERFORMANCE

This report provides a record of [REDACTED] test results on the science SBA.

Proficiency Levels

The science SBA is designed to measure knowledge and skills against state standards. Scores on these tests are grouped into four proficiency levels. The proficiency level chart shows the scale score ranges associated with each level. Typical characteristics for the proficiency levels can be found at <http://education.alaska.gov>.

Scale Score

The scale score earned by the student determines the student's performance level of proficient or not proficient on the science SBA. The points earned are converted into a scale score that takes into consideration the fact that some items that make up a standard on the test are more difficult than others. Therefore, a student can earn the same raw score on two standards and end up with two different scale scores. For this reason, you cannot divide the points earned by the points possible for a standard to derive the scale score.

Skills Performance

Science is composed of different skills. The chart on the right shows how [REDACTED] did on these skills.

Interpretation of Chart

Scale scores are represented by the diamond (+). For each subject, the chart displays where the proficient cut score lies within the possible scale score range (100 - 600). Scores in the shaded area indicate not proficient, whereas scores in the non-shaded area indicate proficient.

For example, [REDACTED] scale score in Science is 304. Note that the diamond representing this score falls in the Proficient scale score range. If [REDACTED] were to take a similar test multiple times, the range of these scores would fall between 280 and 328 (as represented by the line) 80% of the time.

NAME's Performance by Standard

PROFICIENCY LEVELS AND PROBABLY SCALE SCORE RANGES

Subject/Standard	Points Possible	Points Earned	Scale Score Earned		FBP	BP	P	A
Science	50	35	304	S C I E N C E				
S1.1 Inquiry, Technology, and Nature of Science	22	13	285					
S2.1 Concepts of Physical Science	8	6	320					
S3.1 Concepts of Life Science	10	8	317					
S4.1 Concepts of Earth Science	10	8	327					

Alaska's Science Proficiency Level Descriptors – 4th Grade

Proficiency Level	Science	Scale Score Ranges
Advanced	The student displays a highly developed conceptual understanding by designing simple investigations and incorporating the processes of science; explaining technological, local, and historical connections to science; modeling and explaining the characteristics of matter including the phase changes caused by heating and cooling; providing detailed explanations of past and present organisms and comparing their links to the Alaska environment; explaining and modeling the rock cycle and cycles caused by the changing positions of the Sun and Earth; explaining causes of surface changes on Earth; and explaining and modeling that objects in the universe can be observed and described by their properties, locations, and movements.	Science 357 and Above
Proficient	The student demonstrates a basic conceptual understanding by applying the processes of science during simple investigations; demonstrating connections between science and technological, local, and historical perspectives; identifying and comparing the characteristics of matter including phase changes caused by heating and cooling; explaining past and present organisms and their Alaska environment; describing simple processes of the rock cycle and cycles caused by the changing positions of the Sun and Earth; identifying the causes of surface changes on Earth; and recognizing that objects in the universe can be observed and described by their properties, locations, and movements.	Science 300 - 356
Below Proficient	The student shows a fundamental understanding by recognizing the processes of science during simple investigations; exploring technological, local, and historical connections to science; describing the characteristics of matter including phase changes caused by heating and cooling; identifying past and present organisms and recognizing how they are linked to their Alaska environment; recognizing weathering as part of the rock cycle; connecting daily cycles to seasonal activities; naming causes of surface changes on Earth; and recognizing that objects in the universe can be observed and described by their properties, locations, and movements.	Science 233 - 299
Far Below Proficient	There is a significant need for additional instructional opportunities to achieve the proficient level.	Science 232 and Below

* Proficiency Level: A = Advanced, P = Proficient, BP = Below Proficient, FBP = Far Below Proficient

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