

# Star Lab Standards

## Kindergarten:

### Alaska State Speaking and Listening Standards

SL.K.1.a-b: Participate in collaborative conversations with diverse partners about kindergarten topics and texts with peers and adults in small and larger groups;

- a. Follow agreed-upon rules for discussions (e.g., listening to others and taking turns speaking about the topics and texts under discussion);
- b. Continue a conversation through multiple exchanges.

SL.K.2: Confirm understanding of a text read aloud or information presented orally or through other media by asking and answering questions about key details and requesting clarification if something is not understood.

### State of Alaska History Standards:

H.A.5: Understand that history is a narrative told in many voices and expresses various perspectives of historical experience.

H.A.6: Know that cultural elements including language, literature, the arts, customs, and belief systems, reflect the ideas and attitudes of a specific time and know how the cultural elements influence human interaction.

# First Grade

## KPBSD Standards

### Reading:

**1.2.1:** Student will answer who, what, where and when questions after listening to or reading a story.

### Language Arts:

**NEW:** Participate in collaborative conversations with diverse partners about grade 1 topics and texts with peers and adults in smaller and larger groups.

**NEW:** Ask and answer questions about key details in a text read aloud or information presented orally or through other media.

**NEW:** Ask and answer questions about what a speaker says in order to gather additional information or clarify something that is not understood.

## Alaska State Speaking and Listening Standards

SL.1.1.a-c: Participate in collaborative conversations with diverse partners about grade 1 topics and texts with peers and adults in small and larger groups;

- a. Follow agreed-upon rules for discussions (e.g., listening to others with care, speaking one at a time about the topics and texts under discussion);
- b. Build on others' talk in conversations by responding to the comments of others through multiple exchanges;
- c. Ask questions to clear up any confusion about the topics and texts under discussion.

SL.1.2: Ask and answer questions about key details in a text read aloud or information presented orally or through other media.

SL.1.3: Ask and answer questions about what a speaker says in order to gather additional information or clarify something that is not understood.

### KPBSD History Standards:

H.B.1 Comprehend the forces of change and continuity that shape human history through the following persistent organizing themes:

- a. the development of culture, the emergence of civilizations, and the accomplishments and mistakes of social organizations;
  - b. human communities and their relationships with climate, subsistence base, resources, geography, and technology
  - c. the origin and impact of ideologies, religions, and institutions upon human societies
  - d. the consequences of peace and violent conflict to societies and their cultures; and
- \*i.e. major developments in societies as well as changing patterns related to class, ethnicity, race, and gender.

## **State of Alaska History Standards:**

H.A.5: Understand that history is a narrative told in many voices and expresses various perspectives of historical experience.

H.A.6: Know that cultural elements including language, literature, the arts, customs, and belief systems, reflect the ideas and attitudes of a specific time and know how the cultural elements influence human interaction.

NGSS Space Systems:

1:ESS1-1: Use observations of the sun, moon, and stars to describe patterns that can be predicted.

# 2<sup>nd</sup> grade

## Alaska State Speaking and Listening Standards

SL.2.1.a-c: Participate in collaborative conversations with diverse partners about grade 2 topics and texts with peers and adults in small and larger groups;

- a. Follow agreed-upon rules for discussions (e.g., gaining the floor in respectful ways, listening to others with care, speaking one at a time about the topics and texts under discussion);
- b. Build on others' talk in conversations by linking their comments to the remarks of others;
- c. Ask for clarification and further explanation as needed about the topics and texts under discussions.

SL.2.2: Retell or describe key ideas or details from a text read aloud or information presented orally or through other media.

SL.2.3: Ask and answer questions about what a speaker says in order to clarify comprehension, gather additional information, or deepen understanding of a topic or issue.

SL.2.4: Tell a story or retell an experience with relevant facts and relevant, descriptive details, speaking audibly in coherent sentences.

## State of Alaska History Standards:

H.A.5: Understand that history is a narrative told in many voices and expresses various perspectives of historical experience.

H.A.6: Know that cultural elements including language, literature, the arts, customs, and belief systems, reflect the ideas and attitudes of a specific time and know how the cultural elements influence human interaction.

# 3<sup>rd</sup> Grade

## Alaska State Speaking and Listening Standards

SL.3.1.a-d: Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 3 topics and texts, building on others' ideas and expressing their own clearly;

- a. After learning a protocol (e.g., Socratic method), come to discussions prepared, having read or studied required material; explicitly draw on that preparation and other information known about the topic to explore ideas under discussion;
- b. Follow agreed-upon rules for discussions (e.g., gaining the floor in respectful ways, listening to others with care, speaking one at a time about the topics and texts under discussion);
- c. Ask questions to check understanding of information presented, stay on topic, and link their comments to the remarks of others;
- d. Explain their own ideas and understanding in light of the discussion.

SL.3.3: Ask and answer questions about information from a speaker, offering appropriate elaboration or explanations and detail.

SL.3.4: Report on a topic or text, tell a story, or recount an experience with appropriate facts and relevant, descriptive details, speaking clearly at an understandable pace.

## State of Alaska History Standards:

H.A.5: Understand that history is a narrative told in many voices and expresses various perspectives of historical experience.

H.A.6: Know that cultural elements including language, literature, the arts, customs, and belief systems, reflect the ideas and attitudes of a specific time and know how the cultural elements influence human interaction.

# 4<sup>th</sup> Grade

## Alaska State Speaking and Listening Standards

SL.4.1.a-d: Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 4 topics and texts, building on others' ideas and expressing their own clearly;

- a. Come to discussions prepared, having read or studied required material; explicitly draw on that preparation and other information known about the topic to explore ideas under discussion;
- b. Follow agreed-upon rules for discussions and carry out assigned roles;
- c. Pose and respond to specific questions to clarify or follow up on information, and make comments that contribute to the discussion and link to the remarks of others;
- d. Review the key ideas expressed and explain their own ideas and understanding in light of the discussion.

SL.4.2: Paraphrase portions of a text read aloud or information presented in diverse media and formats, including visually, quantitatively, and orally.

## State of Alaska History Standards:

H.A.5: Understand that history is a narrative told in many voices and expresses various perspectives of historical experience.

H.A.6: Know that cultural elements including language, literature, the arts, customs, and belief systems, reflect the ideas and attitudes of a specific time and know how the cultural elements influence human interaction.

# 5<sup>th</sup> Grade

## Alaska State Speaking and Listening Standards

SL.5.1.a-d: Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 5 topics and texts, building on others' ideas and expressing their own clearly;

- a. Come to discussions prepared, having read or studied required material; explicitly draw on that preparation and other information known about the topic to explore ideas under discussion;
- b. Follow agreed-upon rules for discussions and carry out assigned roles;
- c. Pose and respond to specific questions by making comments that contribute to the discussion and elaborate on the remarks of others;
- d. Review the key ideas expressed and draw conclusions in light of information and knowledge gained from the discussions.

SL.5.2: Summarize a written text read aloud or information presented in diverse media and formats, including visually, quantitatively, and orally.

## State of Alaska History Standards:

H.A.5: Understand that history is a narrative told in many voices and expresses various perspectives of historical experience.

H.A.6: Know that cultural elements including language, literature, the arts, customs, and belief systems, reflect the ideas and attitudes of a specific time and know how the cultural elements influence human interaction.

## NGSS Physical Science

5-PS2-1: Support an argument that the gravitation force exerted by the Earth on objects is directed down.

## NGSS Earth and Space Systems

5-ESS1-1: Support an argument that differences in the apparent brightness of the sun compared to other stars is due to their relative distances from the Earth.

5-ESS1-2: Represent data in graphical displays to reveal patterns of daily changes in length and direction of shadows, day and night, and the seasonal appearance of some stars in the sky.

# 6<sup>th</sup> grade

## Alaska State Speaking and Listening Standards

SL.6.1.a-d: Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 6 topics, texts, and issues, building on others' ideas and expressing their own clearly;

- a. Come to discussions prepared, having read or studied required material; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion;
- b. Follow rules for collegial discussions (e.g., establishing norms: taking turns, paraphrasing, respecting diverse viewpoints), set specific goals and deadlines, and define individual roles as needed;
- c. Pose and respond to specific questions with elaboration and detail by making comments that contribute to the topic, text, or issue under discussion;
- d. Review the key ideas expressed and demonstrate understanding of multiple perspectives through reflection and paraphrasing.

## State of Alaska History Standards:

H.A.5: Understand that history is a narrative told in many voices and expresses various perspectives of historical experience.

H.A.6: Know that cultural elements including language, literature, the arts, customs, and belief systems, reflect the ideas and attitudes of a specific time and know how the cultural elements influence human interaction.

# 7<sup>th</sup> Grade

## Alaska State Speaking and Listening Standards

SL.7.1.a-d: Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 7 topics, texts, and issues, building on others' ideas and expressing their own clearly;

- a. Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion;
- b. Follow rules for collegial discussions (e.g., establishing norms: taking turns, paraphrasing, respecting diverse viewpoints), track progress toward specific goals and deadlines, and define individual roles as needed;
- c. Pose questions that elicit elaboration and respond to others' questions and comments with relevant observations and ideas that bring the discussion back on topic as needed;
- d. Acknowledge new information expressed by others and, when warranted, modify their own views.

## State of Alaska History Standards:

H.A.5: Understand that history is a narrative told in many voices and expresses various perspectives of historical experience.

H.A.6: Know that cultural elements including language, literature, the arts, customs, and belief systems, reflect the ideas and attitudes of a specific time and know how the cultural elements influence human interaction.

# 8<sup>th</sup> grade

## Alaska State Speaking and Listening Standards

SL.8.1.a-d: Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 8 topics, texts, and issues, building on others' ideas and expressing their own clearly;

- a. Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion;
- b. Follow rules for collegial discussions (e.g., establishing norms: taking turns, paraphrasing, respecting diverse viewpoints), and decision-making (e.g., coming to consensus), track progress toward specific goals and deadlines, and define individual roles as needed;
- c. Pose questions that connect the ideas of several speakers and respond to others' questions and comments with relevant evidence, observations, and ideas;
- d. Acknowledge new information expressed by others, and, when warranted, qualify or justify their own views in light of the evidence presented.

## State of Alaska History Standards:

H.A.5: Understand that history is a narrative told in many voices and expresses various perspectives of historical experience.

H.A.6: Know that cultural elements including language, literature, the arts, customs, and belief systems, reflect the ideas and attitudes of a specific time and know how the cultural elements influence human interaction.

# Middle School

## NGSS Space Systems Standards

MS-ESS1-1: Develop and use a model of the Earth-sun-moon system to describe the cyclic patterns of lunar phases, eclipses of the sun and moon, and seasons.

MS-ESS1-2: Develop and use a model to describe the role of gravity in the motions within galaxies and the solar system.

MS-ESS1-3: Analyze and interpret data to determine scale properties of objects in the solar system.

# 9<sup>th</sup> – 10<sup>th</sup> Grade

## Alaska State Speaking and Listening Standards

SL.9-10.1.a-d: Initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grades 9–10 topics, texts, and issues, building on others' ideas and expressing their own clearly and persuasively;

- a. Come to discussions prepared, having read and researched material under study; explicitly draw on that preparation by referring to evidence from texts and other research on the topic or issue to stimulate a thoughtful, well-reasoned exchange of ideas;
- b. Work with peers to set rules for collegial discussions and decision-making (e.g., informal consensus, taking votes on key issues, presentation of alternate views), clear goals and deadlines, and individual roles as needed;
- c. Propel conversations by posing and responding to questions that relate the current discussion to broader themes or larger ideas; actively incorporate others into the discussion; and clarify, verify, or challenge ideas and conclusions;
- d. Respond thoughtfully to diverse perspectives, summarize points of agreement and disagreement, and, when warranted, qualify or justify their own views and understanding and make new connections in light of the evidence and reasoning presented.

SL.9-10.3: Identify and evaluate a speaker's point of view, reasoning, and use of evidence and rhetoric, identifying any fallacious reasoning or exaggerated or distorted evidence.

## State of Alaska History Standards:

H.A.5: Understand that history is a narrative told in many voices and expresses various perspectives of historical experience.

H.A.6: Know that cultural elements including language, literature, the arts, customs, and belief systems, reflect the ideas and attitudes of a specific time and know how the cultural elements influence human interaction.

# 11<sup>th</sup>-12<sup>th</sup> grades

## Alaska State Speaking and Listening Standards

SL.11-12.1.a-d: Initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grades 11–12 topics, texts, and issues, building on others' ideas and expressing their own clearly and persuasively;

- a. Come to discussions prepared, having read and researched material under study; explicitly draw on that preparation by referring to evidence from texts and other research on the topic or issue to stimulate a thoughtful, well-reasoned exchange of ideas;
- b. Work with peers to promote civil, democratic discussions and decision-making, set clear goals and deadlines, and establish individual roles as needed.
- c. Propel conversations by posing and responding to questions that probe reasoning and evidence; ensure a hearing for a full range of positions on a topic or issue; clarify, verify, or challenge ideas and conclusions; and promote divergent and creative perspectives;
- d. Respond thoughtfully to diverse perspectives or arguments; synthesize comments, claims, and evidence made on all sides of an issue; resolve contradictions when possible; and determine what additional information or research is required to deepen the investigation or complete the task.

## State of Alaska History Standards:

H.A.5: Understand that history is a narrative told in many voices and expresses various perspectives of historical experience.

H.A.6: Know that cultural elements including language, literature, the arts, customs, and belief systems, reflect the ideas and attitudes of a specific time and know how the cultural elements influence human interaction.