

HOW YOUR BRAIN UNDERSTANDS WHAT YOUR EAR HEARS

Idaho Science Content Standards – Grades 6, 7, 8

Lesson	Standard	Descriptor
2, 4	6.S.1.2.1	Explain how observations and data are used as evidence on which to base scientific explanations and predictions.
All lessons	6.S.1.2.2	Use observations to make inferences.
2, 3, 4	6.S.1.2.3	Use models to explain or demonstrate a concept.
1, 3, 4	6.S.1.3.1	Analyze changes that occur in and among systems.
3, 4	6.S.1.6.1	Write and analyze questions that can be answered by conducting scientific experiments.
3	6.S.1.6.2	Conduct scientific investigations using a control and variables. Repeat same experiment using alternate variables.
2, 3, 5	6.S.1.6.3	Select and use appropriate tools and techniques to gather and display data.
All lessons	6.S.1.6.4	Use evidence to analyze data in order to develop descriptions, explanations, predictions, and models.
3, 4	6.S.1.6.5	Test a hypothesis based on observations.
3, 4, 5	6.S.1.6.6	Communicate scientific procedures and explanations.
3, 4	6.S.1.8.1	Read, give, and execute technical instructions.
4	6.S.3.3.1	Identify the different structural levels of which an organism is comprised (cells, tissues, organs, organ systems, and organisms).
4	7.S.1.1.3	Identify the different structural levels of an organism (cells, tissues, organs, and organ systems).
2, 4	7.S.1.2.1	Describe how observations and data are evidence on which to base scientific explanations and predictions.
All lessons	7.S.1.2.2	Use observations to make defensible inferences.
3, 4	7.S.1.2.3	Use models to explain or demonstrate a concept.
3	7.S.1.6.1	Identify controls and variables used in scientific investigations.
2, 3, 5	7.S.1.6.2	Use appropriate tools and techniques to gather and display data.
All lessons	7.S.1.6.3	Evaluate data in order to form conclusions.

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3, 4	7.S.1.6.4	Use evidence and critical thinking to accept or reject a hypothesis.
3, 4	7.S.1.6.5	Evaluate alternative explanations or predictions.
3, 4, 5	7.S.1.6.6	Communicate and defend scientific procedures and explanations.
3, 4	7.S.1.8.1	Read and evaluate technical instructions.
4	7.S.3.3.1	Explain the relationships among specialized cells, tissues, organs, organ systems, and organisms.
All lessons	8-9.PS.1.2.1	Use observations and data as evidence on which to base scientific explanations.
2, 3, 4	8-9.PS.1.2.2	Develop models to explain concepts or systems.
All lessons	8-9.PS.1.2.3	Develop scientific explanations based on knowledge, logic, and analysis.
3	8-9.PS.1.3.1	Measure changes that can occur in and among systems.
1, 3, 4	8-9.PS.1.3.2	Analyze changes that can occur in and among systems.
3, 4	8-9.PS.1.6.1	Identify questions and concepts that guide scientific investigations.
3, 4	8-9.PS.1.6.2	Utilize the components of scientific problem solving to design, conduct, and communicate results of investigations.
3, 4	8-9.PS.1.6.3	Use appropriate technology and mathematics to make investigations.
2, 3, 4, 5	8-9.PS.1.6.4	Formulate scientific explanations and models using logic and evidence.
2, 3, 4	8-9.PS.1.6.5	Analyze alternative explanations and models.
3, 4, 5	8-9.PS.1.6.6	Communicate and defend a scientific argument.
2	8-9.PS.1.6.7	Explain the differences among observations, hypotheses, and theories.
4	8-9.PS.2.3.1	Explain that energy can be transformed but cannot be created nor destroyed.
Idaho Mathematics Content Standards – Grades 6, 7, 8		
Lesson	Standard	Descriptor
3	6.M.1.2.3	Evaluate numerical expressions with whole numbers using the order of operations (excluding exponents).
3	6.M.1.2.4	Select and use an appropriate method of computation from mental math, paper and pencil, calculator or a combination of the three.
3, 5	6.M.1.2.5	Use a variety of strategies to solve real life problems.

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3, 5	6.M.1.2.6	Use appropriate vocabulary and notations.
5	6.M.1.3.1	Estimate to predict computation results.
3	6.M.3.4.3	Use mathematical models to show change in a real world context.
3	6.M.3.6.1	Use patterns to represent and solve simple problems.
3	6.M.5.1.1	Read and interpret tables, charts, and graphs, including broken line graphs, bar graphs, frequency tables, line plots, and circle graphs.
2, 3, 5	6.M.5.1.2	Explain and justify stated conclusions drawn from tables, charts, and graphs.
2, 3	6.M.5.2.1	Collect, organize, and display the data with appropriate notation in tables, charts, and graphs, including broken line graphs, bar graphs, frequency tables and line plots.
3, 5	6.M.5.5.1	Make predictions based on data.
3	7.M.1.2.5	Select and use an appropriate method of computation from mental math, paper and pencil, calculator, or a combination of the three.
3	7.M.1.2.6	Use a variety of strategies including common mathematical formulas to compute problems drawn from real life situations.
3	7.M.1.2.7	Use appropriate vocabulary and notations.
5	7.M.1.3.1	Estimate to predict computation results.
3	7.M.3.4.2	Explain how a change in one quantity impacts a change in another quantity.
3	7.M.3.5.1	Represent a simple set of data in a table, as a graph, and as a mathematical relationship.
3	7.M.5.1.1	Read and interpret tables, charts, and graphs, including frequency tables, scatter plots, broken line graphs, line plots, bar graphs, histograms, circle graphs, and stem-and-leaf plots.
2, 3, 5	7.M.5.1.2	Explain conclusions drawn from tables, charts, and graphs.
2, 3, 5	7.M.5.2.1	Collect, organize, and display data with appropriate notation in tables, charts and graphs, including scatter plots, broken line graphs, line plots, bar graphs, and stem-and-leaf plots.
3	8.M.1.2.5	Select and use an appropriate method of computation from mental math, paper and pencil, calculator, or a combination of the three.
3, 5	8.M.1.2.6	Use a variety of strategies including common mathematical formulas to compute problems drawn from real life situations.
3	8.M.1.2.7	Use appropriate vocabulary and notations.

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5	8.M.1.3.1	Estimate to predict computation results.
3	8.M.3.4.2	Use relationships to explain how a change in one quantity may result in a change in another, and identify the relationship as a positive, negative, or neither.
3	8.M.5.1.1	Analyze and interpret tables, charts, and graphs, including frequency tables, scatter plots, broken line graphs, line plots, bar graphs, histograms, circle graphs, and stem-and-leaf plots.
2, 3, 5	8.M.5.1.2	Explain and justify conclusions drawn from tables, charts, and graphs.
2, 3, 5	8.M.5.2.1	Collect, organize, and display data with appropriate notation in tables, charts, and graphs, including scatter plots, broken line graphs, line plots, bar graphs, histograms, and stem-and-leaf plots.

Idaho Language Arts Content Standards – Grades 6, 7, 8

Lesson	Standard	Descriptor
1, 3, 4, 5	6.LA.1.8.3	Use words and concepts necessary for comprehending math, science, social studies, literature and other Grade 6 content area text.
1, 3, 4, 5	6.LA.2.1.3	Make inferences, draw conclusions and form opinions based on information gathered from text and cite evidence to support.
1, 3, 4, 5	6.LA.2.2.2	Generate how, why, and what-if questions for interpreting expository texts.
2, 3, 4, 5	6.LA.2.2.4	Follow multi-step written directions.
2, 3, 5	6.LA.3.1.4	Apply an appropriate writing format for purpose and audience.
2, 3, 5	6.LA.3.5.2	Share writing with intended audience.
3	6.LA.4.2.1	Write technical text that identifies a sequence of activities or processes.
3, 4, 5	6.LA.4.4.1	Write a response that identifies a text to self, text to world, and/or text to text connection.
2, 3, 4, 5	6.LA.5.1.1	Write fluently and legibly in print or cursive.
All lessons	6.LA.6.1.3	Listen to identify the tone, mood, and emotion conveyed in oral communications.
All lessons	6.LA.6.1.4	Listen to acquire and summarize information from a variety of sources.
All lessons	6.LA.6.2.1	Ask questions to elicit information, including evidence to support a speaker's position.
All lessons	6.LA.6.3.2	Demonstrate understanding of graphics, pictures, and charts appropriate to grade level.
1, 3, 4, 5	7.LA.1.6.1	Use context clues to aid in decoding of new words.

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1, 3, 4, 5	7.LA.1.8.3	Use prior knowledge, the text, context clues, and graphic features of text to predict, clarify, and/or expand word meanings and concepts.
1, 3, 4, 5	7.LA.2.1.3	Make inferences, draw conclusions and form opinions based on information gathered from text and cite evidence to support.
1, 3, 4, 5	7.LA.2.2.2	Generate how, why, and what-if questions for interpreting expository texts.
1, 3, 4, 5	7.LA.2.2.3	Summarize the main idea (literal or inferential) and critical details of expository text.
2, 3, 4, 5	7.LA.2.2.4	Follow multi-step written directions.
2, 3, 5	7.LA.3.1.4	Match appropriate writing format to purpose and audience.
3	7.LA.3.3.4	Apply a variety of sentence structures to improve sentence fluency and enhance writing style.
2, 3, 5	7.LA.3.5.1	Publish writing in an appropriate format for the purpose and audience.
3	7.LA.4.2.1	Write technical text that identifies a sequence of activities or processes.
2, 3, 4, 5	7.LA.5.1.1	Write fluently and legibly in print or cursive.
All lessons	7.LA.6.1.1	Develop appropriate interpersonal listening skills (e.g., eye contact, body language
All lessons	7.LA.6.1.4	Listen to acquire and summarize information from a variety of sources.
All lessons	7.LA.6.2.1	Ask questions to elicit information, including evidence to support a speaker's position.
All lessons	7.LA.6.3.2	Demonstrate understanding of graphics, pictures, and charts appropriate to grade level.
1, 3, 4, 5	8.LA.1.6.1	Use context clues to aid in decoding new words.
1, 3, 4, 5	8.LA.1.8.3	Define words and concepts necessary for comprehending Grade 8 content area text.
1, 3, 4, 5	8.LA.2.1.3	Make inferences, draw conclusions, and form opinions based on information gathered from text and cite evidence to support.
1, 3, 4, 5	8.LA.2.2.2	Generate how, why, and what-if questions for interpreting expository texts.
1, 3, 4, 5	8.LA.2.2.3	Apply central ideas (literal or inferential) and critical details to summarize information from expository text.
2, 3, 5	8.LA.3.1.4	Match appropriate writing format to purpose and audience.
2, 3, 5	8.LA.3.5.1	Publish writing in an appropriate format for the purpose and audience.
2, 3, 5	8.LA.3.5.4	Share writing with intended audience.
3	8.LA.4.2.1	Write technical text that identifies a sequence of activities or processes.

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2, 3, 4, 5	8.LA.5.1.1	Write fluently and legibly in print or cursive.
All lessons	8.LA.6.1.1	Listen to acquire and summarize information from a variety of electronic or live sources.
Idaho Health Content Standards – Grades 6, 7, 8		
Lesson	Standard	Descriptor
4, 5	6.H.1.1.2	Identify prevention, causes, and treatment of diseases and disorders.
4	6.H.1.1.7	Identify the functions and characteristics of the major body systems.
3, 5	6.H.1.1.10	Describe environmental health issues and their relationships to a healthy lifestyle.
4, 5	7-8.H.1.1.2	Identify the prevention, causes, symptoms, treatment, and consequences of diseases and disorders.
3, 5	7-8.H.1.1.9	Examine environmental health and recognize how it relates to a healthy lifestyle.
5	7-8.H.2.1.2	Evaluate the impact of risky behavior on personal health.