National Inventors	s Hall of Fame Education Programs [®] Let's Glow Aligned to Next Generation Science and Common Core State Standards
	Kindergarten
Core Idea	Standard
	Common Core Standards for Mathematics
Measurement and Data: Describe	K.MD2. Directly compare two objects with a measurable attribute in common, to see which object has "more of"/"less of" the
and compare measurable	attribute, and describe the difference. For example, directly compare the heights of two children and describe one child as
attributes.	taller/shorter.
Geometry: Identify and describe	K.G1. Describe objects in the environment using names of shapes, and describe the relative positions of these objects using terms
shapes (squares, circles, triangles,	such as above, below, beside, in front of, behind, and next to.
rectangles, hexagons, cubes,	K.G3. Identify shapes as two-dimensional (lying in a plane, "flat") or three-dimensional ("solid").
Geometry: Analyze, compare,	
create, and compose shapes.	K.G5. Model shapes in the world by building shapes from components (e.g., sticks and clay balls) and drawing shapes.
	Common Core Standards for English Language Arts
	RI1. With prompting and support, ask and answer questions about key details in a text.
Deeding Chandende fan	RI3. With prompting and support, describe the connection between two individuals, events, ideas, or pieces of information in a text.
Reading Standards for	RI4. With prompting and support, ask and answer questions about unknown words in a text.
Informational Text K-6	RI5. Identify the front cover, back cover, and title page of a book.
	RI7. With prompting and support, describe the relationship between illustrations and the text in which they appear (e.g., what
	person, place, thing, or idea in the text an illustration depicts).
Reading Standards: Foundational	RF1. Demonstrate understanding of the organization and basic features of print.
Skills K-5	a. Follow words from left to right, top to bottom, and page by page.
Muitin - Chan danda K.C.	W8. With guidance and support from adults, recall information from experiences or gather information from provided sources to
Writing Standards K-6	answer a question.
	Common Core Standards for English Language Arts
	SL1. 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).
Speaking and Listening Standards K-6	b. Continue a conversation through multiple exchanges.
	SL2. 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.
	SL4. Describe familiar people, places, things, and events and, with prompting and support, provide additional detail.
	SL5. Add drawings or other visual displays to descriptions as desired to provide additional detail.
	SL6. Speak audibly and express thoughts, feelings, and ideas clearly.
Language Standards K-6	L6. Use words and phrases acquired through conversations, reading and being read to, and responding to texts.

National Inventor	s Hall of Fame Education Programs [®] Let's Glow Aligned to Next Generation Science and Common Core State Standards
	Grade One
Core Idea	Standard
	Next Generation Science Standards
1-PS4 Waves and their	1-PS4-2. Make observations to construct an evidence-based account that objects can be seen only when illuminated.
Applications in Technologies for	1-PS4-3. Plan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a
Information Transfer	beam of light.
	Common Core Standards for Mathematics
Commenter Person with change	1.G2. Compose two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles) or three-
Geometry: Reason with shapes	dimensional shapes (cubes, right rectangular prisms, right circular cones, and right circular cylinders) to create a composite shape,
and their attributes.	and compose new shapes from the composite shape.
	Common Core Standards for English Language Arts
	RI1. Ask and answer questions about key details in a text.
	RI3. Describe the connection between two individuals, events, ideas, or pieces of information in a text.
Reading Standards for	RI4. Ask and answer questions to help determine or clarify the meaning of words and phrases in a text.
Informational Text K-6	RI5. Know and use various text features (e.g., headings, tables of contents, glossaries, electronic menus, icons) to locate key facts or
	information in a text.
	RI7. Use the illustrations and details in a text to describe its key ideas.
Reading Standards: Foundational	
Skills K-5	RF2. Demonstrate understanding of spoken words, syllables, and sounds (phonemes).
	W8. With guidance and support from adults, recall information from experiences or gather information from provided sources to
Writing Standards K-6	answer a question.
	Common Core Standards for English Language Arts
	SL1. 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).
Coopling and Listoping Standards	b. Build on others' talk in conversations by responding to the comments of others through multiple exchanges.
Speaking and Listening Standards	
K-6	SL2. Ask and answer questions about key details in a text read aloud or information presented orally or through other media.
	SL3. Ask and answer questions about what a speaker says in order to gather additional information or clarify something that is not
	understood.
	SL4. Describe people, places, things, and events with relevant details, expressing ideas and feelings clearly.
	SL5. Add drawings or other visual displays to descriptions when appropriate to clarify ideas, thoughts, and feelings.
	L6. Use words and phrases acquired through conversations, reading and being read to, and responding to texts, including using
Language Standards K-6	

National Inventors	Hall of Fame Education Programs [®] Let's Glow Aligned to Next Generation Science and Common Core State Standards
	Grade Two
Core Idea	Standard
	Next Generation Science Standards
2-PS1 Matter and its Interactions	2-PS1-1. Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.
	2-PS1-2. Analyze data obtained from testing different materials to determine which materials have the properties that are best suited for an intended purpose.
	Common Core Standards for English Language Arts
	RI3. Describe the connection between a series of historical events, scientific ideas or concepts, or steps in technical procedures in a text.
Reading Standards for	RI4. Determine the meaning of words and phrases in a text relevant to a grade 2 topic or subject area.
Informational Text K-6	RI5. Know and use various text features (e.g., captions, bold print, subheadings, glossaries, indexes, electronic menus, icons) to
	locate key facts or information in a text efficiently.
	RI7. Explain how specific images (e.g., a diagram showing how a machine works) contribute to and clarify a text.
Writing Standards K-6	W8. Recall information from experiences or gather information from provided sources to answer a question.
	SL1. 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).
Speaking and Listoning Standards	b. Build on others' talk in conversations by linking their comments to the remarks of others.
Speaking and Listening Standards K-6	SL3. 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.
	SL4. Tell a story or recount an experience with appropriate facts and relevant, descriptive details, speaking audibly in coherent
	sentences.
	SL6. Produce complete sentences when appropriate to task and situation in order to provide requested detail or clarification. (See
	grade 2 Language standards 1 and 3 on page 26 for specific expectations.)
Language Standards K-6	L6. Use words and phrases acquired through conversations, reading and being read to, and responding to texts, including using adjectives and adverbs to describe (e.g., When other kids are happy that makes me happy).

	Grade Three
Core Idea	Standard
	Next Generation Science Standards
3-PS2 Motion and Stability: Forces	3-PS2-3. Ask questions to determine cause and effect relationships of electric or magnetic interactions between two objects not in
and Interactions	contact with each other.
	3-5-ETS1-3. Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a
3-5-ETS1 Engineering Design	model or prototype that can be improved.
	Common Core Standards for English Language Arts
	RI3. Describe the relationship between a series of historical events, scientific ideas or concepts, or steps in technical procedures in a
	text, using language that pertains to time, sequence, and cause/effect.
Reading Standards for	RI4. Determine the meaning of general academic and domain-specific words and phrases in a text relevant to a grade 3 topic or
Informational Text K-6	subject area.
	RI7. Use information gained from illustrations (e.g., maps, photographs) and the words in a text to demonstrate understanding of th
	text (e.g., where, when, why, and how key events occur).
	SL1. Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacherled) with diverse partners on grade
	3 topics and texts, building on others' ideas and expressing their own clearly.
Speaking and Listening Standards	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).
К-б	d. Explain their own ideas and understanding in light of the discussion.
	SL3. Ask and answer questions about information from a speaker, offering appropriate elaboration and detail.
	SL4. 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.
	L6. Acquire and use accurately grade-appropriate conversational, general academic, and domainspecific words and phrases,
Language Standards K-6	including those that signal spatial and temporal relationships (e.g., After dinner that night we went looking for them).

National Inventors	s Hall of Fame Education Programs® Let's Glow Aligned to Next Generation Science and Common Core State Standards
	Grade Four
Core Idea	Standard
	Next Generation Science Standards
	4-PS3-2. Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and
4-PS3 Energy	electric currents.
	4-PS3-4. Apply scientific ideas to design, test, and refine a device that converts energy from one form to another.
4-PS4 Waves and their	
Applications in Technologies for	
Information Transfer	4-PS4-2. Develop a model to describe that light reflecting from objects and entering the eye allows objects to be seen.
	3-5-ETS1-3. Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a
3-5-ETS1 Engineering Design	model or prototype that can be improved.
	Common Core Standards for English Language Arts
	RI4. Determine the meaning of general academic and domain-specific words or phrases in a text relevant to a grade 4 topic or
De a dia a Chara da ada fa a	subject area.
Reading Standards for	RI7. Interpret information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, time lines, animations, or
Informational Text K-6	interactive elements on Web pages) and explain how the information contributes to an understanding of the text in which it
	appears.
	W2. Write informative/explanatory texts to examine a topic and convey ideas and information clearly.
Writing Standards K.C.	d. Use precise language and domain-specific vocabulary to inform about or explain the topic.
Writing Standards K-6	W4. Produce clear and coherent writing in which the development and organization are appropriate to task, purpose, and audience.
	(Grade-specific expectations for writing types are defined in standards 1–3 above.)
	SL1. Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacherled) with diverse partners on grade
	4 topics and texts, building on others' ideas and expressing their own clearly.
	b. Follow agreed-upon rules for discussions and carry out assigned roles.
Speaking and Listening Standards	c. Pose and respond to specific questions to clarify or follow up on information, and make comments that contribute to the
К-б	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.
	SL4. Report on a topic or text, tell a story, or recount an experience in an organized manner, using appropriate facts and relevant,
	descriptive details to support main ideas or themes; speak clearly at an understandable pace.
Language Standards K-6	L6. Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases, including those that
	signal precise actions, emotions, or states of being (e.g., quizzed, whined, stammered) and that are basic to a particular topic (e.g.,
	wildlife, conservation, and endangered when discussing animal preservation).

National Inventors	Hall of Fame Education Programs [®] Let's Glow Aligned to Next Generation Science and Common Core State Standards
	Grade Five
Core Idea	Standard
	Next Generation Science Standards
	3-5-ETS1-3. Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a
3-5-ETS1 Engineering Design	model or prototype that can be improved.
	Common Core Standards for English Language Arts
	RI4. Determine the meaning of general academic and domain-specific words and phrases in a text relevant to a grade 5 topic or
Reading Standards for	subject area.
Informational Text K-6	RI7. Draw on information from multiple print or digital sources, demonstrating the ability to locate an answer to a question quickly
	or to solve a problem efficiently.
	W2. Write informative/explanatory texts to examine a topic and convey ideas and information clearly.
Writing Standards K 6	d. Use precise language and domain-specific vocabulary to inform about or explain the topic.
Writing Standards K-6	W4. Produce clear and coherent writing in which the development and organization are appropriate to task, purpose, and audience.
	(Grade-specific expectations for writing types are defined in standards 1–3 above.)
	Common Core Standards for English Language Arts
	SL1. Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacherled) with diverse partners on grade
	5 topics and texts, building on others' ideas and expressing their own clearly.
Speaking and Listening Standards K-6	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.
	SL4. Report on a topic or text or present an opinion, sequencing ideas logically and using appropriate facts and relevant, descriptive
	details to support main ideas or themes; speak clearly at an understandable pace.
Language Chandards K.C.	I.C. Acquire and use accurately grade appropriate general academic and demain specific words and abrases, including these that
Language Standards K-6	L6. Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases, including those that signal contrast, addition, and other logical relationships (e.g., however, although, nevertheless, similarly, moreover, in addition).

National Inventors	s Hall of Fame Education Programs [®] Let's Glow Aligned to Next Generation Science and Common Core State Standards
	Grade Six
Core Idea	Standard
	Next Generation Science Standards
MS-PS4 Waves and Their	MS-PS4-1. Use mathematical representations to describe a simple model for waves that includes how the amplitude of a wave is
Applications in Technologies for Information Transfer	related to the energy in a wave.
	MS-PS4-2. Develop and use a model to describe that waves are reflected, absorbed, or transmitted through various materials.
MS-LS1 From Molecules to	MS-LS1-1. Conduct an investigation to provide evidence that living things are made of cells; either one cell or many different
	numbers and types of cells.
Organisms: Structures and	MS-LS1-5. Construct a scientific explanation based on evidence for how environmental and genetic factors influence the growth of
Processes	organisms.
	Common Core Standards for English Language Arts
	RI4. Determine the meaning of words and phrases as they are used in a text, including figurative, connotative, and technical
Reading Standards for	meanings.
Informational Text K-6	RI7. Integrate information presented in different media or formats (e.g., visually, quantitatively) as well as in words to develop a
	coherent understanding of a topic or issue.
	W4. Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and
Writing Standards K-6	audience. (Grade-specific expectations for writing types are defined in standards 1–3 above.)
	SL1. Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacherled) with diverse partners on grade
	6 topics, texts, and issues, building on others' ideas and expressing their own clearly.
	b. Follow rules for collegial discussions, set specific goals and deadlines, and define individual roles as needed.
Speaking and Listening Standards	c. Pose and respond to specific questions with elaboration and detail by making comments that contribute to the topic, text, or issue under discussion.
К-б	SL2. Interpret information presented in diverse media and formats (e.g., visually, quantitatively, orally) and explain how it
	contributes to a topic, text, or issue under study.
	SL4. Present claims and findings, sequencing ideas logically and using pertinent descriptions, facts, and details to accentuate main
	ideas or themes; use appropriate eye contact, adequate volume, and clear pronunciation.
	Common Core Standards for English Language Arts
	L6. Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases; gather vocabulary
Language Standards K-6	knowledge when considering a word or phrase important to comprehension or expression.
Reading Standards for Literacy in	RH4. Determine the meaning of words and phrases as they are used in a text, including vocabulary specific to domains related to
History/Social Studies 6-8	history/social studies.
Reading Standards for Literacy in	RST3. Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.
Science and Technical Subjects 6-8	
	scientific or technical context relevant to grades 6–8 texts and topics.