



CHILDREN'S MUSEUM HOUSTON

Inventors Workshop is aligned to Reading/Language Arts, Science TEKS for Kindergarten through Grade 5

Kindergarten, Reading/Language Arts

- communicate ideas effectively through speaking and discussion
 - K.1(A) listen actively and ask questions to understand information and answer questions using multi-word responses
 - K.1(B) restate and follow oral directions that involve a short, related sequence of actions
 - K.1(C) share information and ideas by speaking audibly and clearly using the conventions of language
 - K.1(D) work collaboratively with others by following agreed-upon rules for discussion, including taking turns
 - K.1(E) develop social communication such as introducing himself/herself, using common greetings, and expressing needs and wants

- use research skills to plan and present in written, oral, or multimodal formats
 - K.12(A) generate questions for formal and informal inquiry with adult assistance
 - K.12(B) develop and follow a research plan with adult assistance
 - K.12(C) gather information from a variety of sources with adult assistance
 - K.12(D) demonstrate understanding of information gathered with adult assistance
 - K.12(E) use an appropriate mode of delivery, whether written, oral, or multimodal, to present results

Kindergarten, Science

- **Scientific investigation and reasoning**
 - K.1(B) Demonstrate how to use, conserve, and dispose of natural resources and materials such as conserving water and reusing or recycling paper, plastic, and metal
 - K.2(A) Ask questions about organisms, objects, and events observed in the natural world
 - K.2(B) Plan and conduct simple descriptive investigations
 - K.2(C) Collect data and make observations using simple tools
 - K.2(E) Communicate observations about simple descriptive investigations
 - K.3(A) Identify and explain a problem such as the impact of littering and propose a solution
 - K.3(B) Make predictions based on observable patterns in nature
 - K.3(C) Explore that scientists investigate different things in the natural world and use tools to help in their investigations
 - K.4(B) Use the senses as a tool of observation to identify properties and patterns of organisms, objects, and events in the environment their investigations



Kindergarten, Social Studies

- **Science, technology, and society**
 - K.13(A) Identify examples of technology used in the home and school
 - K.13(B) Describe how technology helps accomplish specific tasks and meet people's needs
 - K.13(C) Describe how his or her life might be different without modern technology

Kindergarten, Math

- **Geometry and measurement**
 - K.6(A) Identify two-dimensional shapes, including circles, triangles, rectangles, and squares as special rectangles
 - K.6(F) Create two-dimensional shapes using a variety of materials and drawings
 - K.7(A) Give an example of a measurable attribute of a given object, including length, capacity, and weight

First Grade, Reading/Language Arts

- communicate ideas effectively through speaking and discussion
 - 1.1(A) listen actively, ask relevant questions to clarify information, and answer questions using multi-word responses
 - 1.1(B) follow, restate, and give oral instructions that involve a short, related sequence of actions
 - 1.1(C) share information and ideas about the topic under discussion, speaking clearly at an appropriate pace and using the conventions of language
 - 1.1(D) work collaboratively with others by following agreed-upon rules for discussion, including listening to others, speaking when recognized, and making appropriate contributions
 - 1.1(E) develop social communication such as introducing himself/herself and others, relating experiences to a classmate, and expressing needs and feelings
- use research skills to plan and present in written, oral, or multimodal formats
 - 1.13(A) generate questions for formal and informal inquiry with adult assistance
 - 1.13(B) develop and follow a research plan with adult assistance
 - 1.13(C) identify and gather relevant sources and information to answer the questions with adult assistance
 - 1.13(D) demonstrate understanding of information gathered with adult assistance
 - 1.13(E) use an appropriate mode of delivery, whether written, oral, or multimodal, to present results



First Grade, Science

- **Scientific investigation and reasoning**
 - 1.1(B) Identify and learn how to use natural resources and materials, including conservation and reuse or recycling of paper, plastic, and metals
 - 1.2(A) Ask questions about organisms, objects, and events observed in the natural world
 - 1.2(B) Plan and conduct simple descriptive investigations
 - 1.2(C) Collect data and make observations using simple tools
 - 1.2(E) Communicate observations and provide reasons for explanations using student-generated data from simple descriptive investigations
 - 1.3(A) Identify and explain a problem and propose a solution
 - 1.3(B) Make predictions based on observable patterns
 - 1.3(C) Describe what scientists do
- **Matter and energy**
 - 1.5(C) Classify objects by the materials from which they are made

Second Grade, Science

- **Scientific investigation and reasoning**
 - 2.1(B) Identify and demonstrate how to use, conserve, and dispose of natural resources and materials such as conserving water and reuse or recycling of paper, plastic, and metal
 - 2.2(A) Ask questions about organisms, objects, and events during observations and investigations
 - 2.2(B) Plan and conduct descriptive investigations
 - 2.2(E) Communicate observations and justify explanations using student-generated data from simple descriptive investigations
 - 2.2(F) Compare results of investigations with what students and scientists know about the world
 - 2.3(A) Identify and explain a problem and propose a task and solution for the problem
 - 2.3(B) Make predictions based on observable patterns
 - 2.3(C) Identify what a scientist is and explore what different scientists do
- **Matter and energy**
 - 2.5(C) Demonstrate that things can be done to materials such as cutting, folding, sanding, and melting to change their physical properties
 - 2.5(D) Combine materials that when put together can do things that they cannot do by themselves such as building a tower or a bridge and justify the selection of those materials based on their physical properties



Second Grade, Reading/Language Arts

- **communicate ideas effectively through speaking and discussion**
 - 2.1(A) listen actively, ask relevant questions to clarify information, and answer questions using multi-word responses
 - 2.1(B) follow, restate, and give oral instructions that involve a short, related sequence of actions
 - 2.1(C) share information and ideas that focus on the topic under discussion, speaking clearly at an appropriate pace and using the conventions of language
 - 2.1(D) work collaboratively with others by following agreed-upon rules for discussion, including listening to others, speaking when recognized, making appropriate contributions, and building on the ideas of others
 - 2.1(E) develop social communication such as conversing politely in all situations

- **use research skills to plan and present in written, oral, or multimodal formats**
 - 2.13(A) generate questions for formal and informal inquiry with adult assistance
 - 2.13(C) identify and gather relevant sources and information to answer the questions
 - 2.13(E) demonstrate understanding of information gathered
 - 2.13(G) use an appropriate mode of delivery, whether written, oral, or multimodal, to present results

Second Grade, Social Studies

- **Science, technology, and society**
 - 2.17(A) Describe how science and technology change communication, transportation, and recreation

Third Grade, Reading/Language Arts

- **communicate ideas effectively through speaking and discussion**
 - 3.1(A) listen actively, ask relevant questions to clarify information, and make pertinent comments
 - 3.1(B) follow, restate, and give oral instructions that involve a series of related sequences of action
 - 3.1(C) speak coherently about the topic under discussion, employing eye contact, speaking rate, volume, enunciation, and the conventions of language to communicate ideas effectively
 - 3.1(D) work collaboratively with others by following agreed-upon rules, norms, and protocols
 - 3.1(E) develop social communication such as conversing politely in all situations



- **use research skills to plan and present in written, oral, or multimodal formats**
 - 3.13(A) generate questions on a topic for formal and informal inquiry
 - 3.13(C) identify and gather relevant information from a variety of sources
 - 3.13(E) demonstrate understanding of information gathered
 - 3.13(H) use an appropriate mode of delivery, whether written, oral, or multimodal, to present results

Third Grade, Science

- **Scientific investigation and reasoning**
 - 3.1(B) Make informed choices in the use and conservation of natural resources by recycling or reusing materials such as paper, aluminum cans, and plastics
 - 3.2(A) Plan and implement descriptive investigations, including asking and answering questions, making inferences, and selecting and using equipment or technology needed, to solve a specific problem in the natural world
 - 3.2(E) Demonstrate that repeated investigations may increase the reliability of results
 - 3.2(B) Collect and record data by observing and measuring using the metric system and recognize differences between observed and measured data
 - 3.2(D) Analyze and interpret patterns in data to construct reasonable explanations based on evidence from investigations
 - 3.2(F) Communicate valid conclusions supported by data in writing, by drawing pictures, and through verbal discussion
 - 3.3(A) Analyze, evaluate, and critique scientific explanations by using evidence, logical reasoning, and experimental and observational testing
 - 3.3(C) Connect grade-level appropriate science concepts with the history of science, science careers, and contributions of scientists

Fourth Grade, Reading/Language Arts

- **communicate ideas effectively through speaking and discussion**
 - 4.1(A) listen actively, ask relevant questions to clarify information, and make pertinent comments
 - 4.1(B) follow, restate, and give oral instructions that involve a series of related sequences of action
 - 4.1(C) express an opinion supported by accurate information, employing eye contact, speaking rate, volume, enunciation, and the conventions of language to communicate ideas effectively
 - 4.1(D) work collaboratively with others to develop a plan of shared responsibilities
- **use research skills to plan and present in written, oral, or multimodal formats**
 - 4.13(A) generate and clarify questions on a topic for formal and informal inquiry
 - 4.13(B) develop and follow a research plan with adult assistance
 - 4.13(C) identify and gather relevant information from a variety of sources
 - 4.13(E) demonstrate understanding of information gathered



- 4.13(H) use an appropriate mode of delivery, whether written, oral, or multimodal, to present results

Fourth Grade, Science

- **Scientific investigation and reasoning**
 - 4.1(B) Make informed choices in the use and conservation of natural resources and reusing and recycling of materials such as paper, aluminum, glass, cans, and plastic
 - 4.2(A) Plan and implement descriptive investigations, including asking well defined questions, making inferences, and selecting and using appropriate equipment or technology to answer his/her questions
 - 4.2(E) Perform repeated investigations to increase the reliability of results
 - 4.4(A) Collect, record, and analyze information using tools, including calculators, microscopes, cameras, computers, hand lenses, metric rulers, Celsius thermometers, mirrors, spring scales, balances, graduated cylinders, beakers, hot plates, meter sticks, magnets, collecting nets, and notebooks, timing devices; and materials to support observation of habitats of organisms such as terrariums and aquariums
 - 4.2(D) Analyze data and interpret patterns to construct reasonable explanations from data that can be observed and measured
 - 4.2(F) Communicate valid oral and written results supported by data
 - 4.3(A) Analyze, evaluate, and critique scientific explanations by using evidence, logical reasoning, and experimental and observational testing
 - 4.3(C) Connect grade-level appropriate science concepts with the history of science, science careers, and contributions of scientists

Fifth Grade, Reading/Language Arts

- **communicate ideas effectively through speaking and discussion**
 - 5.1(A) listen actively to interpret verbal and nonverbal messages, ask relevant questions, and make pertinent comments
 - 5.1(B) follow, restate, and give oral instructions that include multiple action steps
 - 5.1(C) give an organized presentation employing eye contact, speaking rate, volume, enunciation, natural gestures, and conventions of language to communicate ideas effectively
 - 5.1(D) work collaboratively with others to develop a plan of shared responsibilities
- **use research skills to plan and present in written, oral, or multimodal formats**
 - 5.13(A) generate and clarify questions on a topic for formal and informal inquiry
 - 5.13(C) identify and gather relevant information from a variety of sources
 - 5.13(E) demonstrate understanding of information gathered
 - 5.13(H) use an appropriate mode of delivery, whether written, oral, or multimodal, to present results



Fifth Grade, Science

- **Scientific investigation and reasoning**
 - 5.1(B) Make informed choices in the conservation, disposal, and recycling of materials
 - 5.2(A) Describe, plan, and implement simple experimental investigations testing one variable
 - 5.2(B) Ask well defined questions, formulate testable hypotheses, and select and use appropriate equipment and technology
 - 5.2(E) Demonstrate that repeated investigations may increase the reliability of results
 - 5.4(A) Collect, record, and analyze information using tools, including calculators, microscopes, cameras, computers, hand lenses, metric rulers, Celsius thermometers, prisms, mirrors, balances, spring scales, graduated cylinders, beakers, hot plates, meter sticks, magnets, collecting nets, and notebooks; timing devices; and materials to support observations of habitats or organisms such as terrariums and aquariums
 - 5.2(D) Analyze and interpret information to construct reasonable explanations from direct (observable) evidence and indirect (inferred) evidence
 - 5.3(A) Analyze, evaluate, and critique scientific explanations by using evidence, logical reasoning, and experimental and observational testing
 - 5.3(C) Connect grade-level appropriate science concepts with the history of science, science careers, and contributions of scientists