CHILDREN'S MUSEUM HOUSTON

Maker Annex is aligned to Reading/Language Arts, Science and Math TEKS for Grades 3-5.

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

CHILDREN'S MUSEUM HOUSTON

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