BEAUMONT CHILDREN'S MUSEUM

April 2024

TEKS GUILDELINES

1. BUBBLING BUBBLES

A. Pre-K 4 Guidelines:

i. PK4.V.C.1- Child names and describes common 2D shapes and names at least 1 solid 3D shape.
ii. PK4.V.E.3- Child recognizes, duplicates, extends, and creates patterns.
iii. PK4.VI.A.1- Child observes, investigates, describes and discusses characteristics of common objects.

2. MIX-IT-UP

A. Pre-K 4 Guidelines:

i. PK4.III.A.1- Child engages in story-related pre-reading activities.
ii. PK4.III.D.2- Child uses information learned from books by describing, relating, categorizing, or comparing and contrasting.
iii. PK4.III.D.3- child asks and responds to questions relevant to the text read aloud.
iv. PK4.VIII.A.2- Child uses art as a form of creative self-expression and representation.

3. MAGNIFICENT MAGNETS

A. Science TEKS:

i. K.1.A.- measuring variables relevant to the hypothesis that are manipulated and comparing results; and experimental investigations.
ii. K.4(8)- collect information using tools, including magnets.
iii. K.7.- describe and predict how a magnet interacts with various materials and how magnets can be used to push or pull.

B. Math TEKS:

i. K.7(A)- give an example of a measurable attribute of a given object, including length, capacity, and weight.

ii. K.2(D)- recognize instantly the quantity of a small group of objects in organized and random arrangements
iii. K.1(E)- create representations

C. ELAR TEKS:

i. K.3.(B)- use illustrations and text the student is able to read or hear to learn.
ii. K.5.(E)- make connections to personal experiences, ideas in other text, and society with adult assistance
iii. K.8.(D) (i)- [recognize characteristics and structures of informational text]

D. Social Studies TEKS:

i. K.13.(B)- sequence and categorize information
ii. K.7(B)- identify purposes for having rules
iii. K.14(D)- create and interpret visuals, including pictures

4. ALL ABOUT LIGHT

A. Science TEKS:

i. K.1.C.- light energy as it relates to the students' everyday lives. Students focus on demonstrating light energy sources and their effect on objects.
ii. K.8.A.- light source is present and compare the effects of different amounts of light on the appearance of objects.
iii. K.8.B.- light travels through some objects and is blocked by other objects, creating shadows.

B. Math TEKS:

i. K.8.C.- Draw conclusions from real-object and picture graphs.
ii. K.1(F)- analyze information

C. ELAR TEKS:

i. K.7(B)- identify and describe the main characters
ii. K.7(D)- describe the setting

D. Social Studies TEKS:

i. K.3(A)- use spatial terms, including over, under, ear, far, left, and right, to describe relative location
ii. K.7(A)- identify purposes for having rues
iii. K,14(D)- create and interpret visuals, including pictures

5. WATER WATER EVERYWHERE

A. Science TEKS:

i. 1.1.A.- tentatively answers the research questions and involve collecting data and recording observations without making comparisons.
ii. 1.1.C.- Force, motion, and energy. Students know that force and motion are related, and that energy exists in many forms as a part of everyday life.
iii. 1.7.A.- explain how pushes and pulls can start, stop, or change the speed or direction of an object's motion.
iv. 1.7.B.- plan and conduct a descriptive investigation that predicts how pushes and pulls can start, stop, or change the speed or direction of an object's motion.

B. Math TEKS:

i. 1.5.(A)- recite numbers forward and backward from any given number between 1 and 20.
ii. 1.5(B)- skip count by twos, fives, and tens to determine the total number of objects up to 120 in a set
iii. 1.2(D)- generate a number that is greater than or less than a given whole number up to 120

C. ELAR TEKS:

i. 1.3(B)- Use illustrations and text the student is able to read or hear to learn.
ii. 1.6(D)- create mental images to deepen understanding with adult assistance
iii. 1.6(F)- make inferences and use evidence to support understanding with adult assistance
iv. 1.7(A)- describe personal connections to a variety of sources

D. Social Studies TEKS:

i. 1.5(A)- identify and describe the physical characteristics of place such as landforms, bodies of water, Earth's resources, and weather
ii. 1.10(A)- explain the purpose for rules and laws in the home, school, and community

6. FORCE AND MOTION

A. Science TEKS:

i. 1.1.A.- Scientific methods on investigation are descriptive, correlative, comparative, or experimental.
ii. 1.1.C.- Force, motion, and energy. Students know that force and motion are related, and that energy exists in many forms as a part of everyday life.
iii. 1.7.A.- explain how pushes and pulls can start, stop, or change the speed or direction of an object's motion.
iv. 1.8.B.- plan and conduct a descriptive investigation that predicts how pushes and pulls can start, stop, or change the speed or direction of an object's motion.

B. Math TEKS:

i. 1.7.(A)- Use measuring tools to measure length of objects.
ii. 1.2(A)- recognize instantly the quantity of structured arrangements

C. ELAR TEKS:

i. 1.3(B)- Use illustrations and text the student is able to read or hear to learn.
ii. 1.8(A)- discuss topics and determine theme using text evidence with adult assistance.
iii. 1.7(A)- describe personal connections to a variety of sources

D. Social Studies TEKS:

i. 1.5(A)- identify and describe the physical characteristics of place such as landforms, bodies of water, Earth's resources, and weather
ii. 1.10(A)- explain the purpose for rules and laws in the home, school, and community
iii. 1.16(B)- sequence and categorize information

7. STRAW BOAT CHALLENGE

A. Science TEKS:

i. 2.1.A.(ii)- Engineering practices. Students identify problems and design solutions using appropriate tools and models.
ii. 2.6.B.- physical properties can be changed through processes such as cutting, folding.
iii. 2.6.C.- small units such as building blocks can be combined or reassembled to form new objects for different purposes and explain the materials chosen based on their physical properties.

B. Math TEKS:

i. 2.8.(A)- create two-dimensional shapes.
ii. 2.2(C)- generate a number that is greater than or less than a given whole number up to 1,200
iii. 2.8(D)- compose three-dimensional solids with given properties or attributes

C. ELAR TEKS:

i. 2.6(C)- make and correct or confirm predictions using text features, characteristics of genre, and structures
ii. 2.6(I)- monitor comprehension and make adjustments such as re-reading, using background knowledge, checking for visual cues, and asking questions when understanding breaks down
iii. 2.8(D)- describe the importance of the setting

D. Social Studies TEKS:

i. 2.5(B)- identify consequences of human modification of the physical environment
ii. 2.15(B)- interpret oral, visual, and print material by sequencing, categorizing, identifying the main idea, predicting, comparing, and contrasting

8. TELESCOPE ADVENTURE

A. Science TEKS:

i. 2.9.B.- Using tools such as telescope and compare how objects in the sky are more visible and can appear different with a tool than with an unaided eye.
ii. 2.4.- The student applies mathematical process to solve addition and subtraction problems with efficiency and accuracy.

B. Math TEKS:

i. 2.9.- The student applies mathematical process standards to select use units to describe length.

C. ELAR TEKS:

i. 2.6(B)- generate questions about text before, during, and after reading to deepen understanding and gain information
ii. 2.6(C)- make and correct or confirm predictions using text features, characteristics of genre, and structures
iii. 2.6(I)- monitor comprehension and make adjustments such as re-reading, using background knowledge, checking for visual cues, and asking questions when understanding breaks down
iv. 2.6(F)- make interferences and use evidence to support understanding
v. 2.6(H)- synthesize information to create new understanding
vi. 2.8(A)- discuss topics and determine theme using text evidence with adult assistance

D. Social Studies TEKS:

i. 2.15(A)- gather information about a topic using a variety of valid oral and visual sources such as pictures
ii. 2.4(B)- locate places

9. SOLIDS, LIQUIDS, AND GASSES, OH MY!

A. Science TEKS:

i. 3.1.A.- ask questions and define problems based on observations or information from text, phenomena, models, or investigation.

ii. 3.6.B.- describe and classify samples of matter as solids, liquids, and gases and demonstrate that solids have a definite shape, and that liquids and gases take the shape of their container.

B. Math TEKS:

i. 3.5.- The student applies mathematical process standards to analyze and create patterns and relationships.

ii. 3.3(F)- represent equivalent fractions with denominators of 2, 3, 4, 6, and 8 using a variety of objects

C. ELAR TEKS:

i. 3.6(C)- make and correct or confirm predictions using text features, characteristics of genre, and structures

ii. 3.6(F)- make interferences and use evidence to support understanding

D. Social Studies TEKS:

i. 3.14(B)- interpret print material by categorizing

ii. 3.3(A)- describe similarities and differences in the physical environment

10. SOLAR SYSTEM EXPLORATION

A. Science TEKS:

i. 3.9.A.- explain the orbits of the Sun, Earth, and Moon in relation to each other.

ii. 3.9.B.- identify the order of the planets in Earth's solar system in relation to the Sun.

B. Math TEKS:

i. 3.5.- The students applies mathematical process standards to analyze and create patterns and relationships.

ii. 3.5(E)- represent real-world relationships using number pairs in verbal descriptions

C. ELAR TEKS:

i. 3.6(F)- make interferences and use evidence to support understanding

ii. 3.6(H)- synthesize information to create new understanding

iii. 3.7(F)- respond using newly acquired vocabulary as appropriate

D. Social Studies TEKS:

i. 3.1(A)- describe how individuals, events, and ideas have changed communities, past and present

ii. 3.14(B)- interpret visual material by categorizing

11. FOOD WEBS

A. Science TEKS:

i. 4.12.A.- investigate and explain how most producers can make their own food using sunlight.

ii. 4.12.B.- describe the cycling of matter and flow of energy through food webs, including the roles of the Sun, producers, consumers, and decomposers.

B. Math TEKS:

i. 4.8.(A)- identify relative sizes of measurement units within the customary and metric systems.

ii. 4.1(B)- use problem-solving models

C. ELAR TEKS:

i. 4.6.(C)- make and correct or confirm predictions using text features, characteristics of genre, and structures

ii. 4.6.(E)- make connections to personal experiences, ideas in other texts, and society

iii. 4.6.(F)- make inferences and use evidence to support understanding

D. Social Studies TEKS:

i. 4.6- Geography. The student understands the concept of regions.

ii. 4.20.(B)- interpret geographic data, population distribution, and natural recourses into a variety of formats such as maps

iii. 4.21.(D)- create written and visual material such as journal entries, reports, graphic organizers, outlines, and bibliographies

12. CIRCUITS

A. Science TEKS:

i. 4.8.A- transfer of energy by objects in motion, waves in water, and sound.

ii. 4.8.B.- identify conductors and insulators of thermal and electrical energy.

iii. 4.8.C.- demonstrate and describe how electrical energy travels in a closed path that can produce light.

B. Math TEKS:

i. 4.8.(A)- identify relative sizes of measurements units within the customary and metric systems.

ii. 4.1(B)- use problem-solving models

C. ELAR TEKS:

i. 4.6.(I)-monitor comprehension and make adjustments such as rereading using background knowledge, asking questions

ii. 4.6.(E)- make connections to personal experiences

D. Social Studies TEKS:

i. 4.19. (C)- organize and interpret information from a variety of sources
ii. 4.19.(B)- analyze information in a variety of ways
iii. 4.18.(A)- identify famous inventors and scientists such as Gail Borden
iv. 4.22.(A)- use problem solving and decision-making processes to identify a problem, gather information, list and consider options, choose and implement a solution, evaluate the effectiveness of the solution

13. ECOSYSTEM CHANGES

A. Science TEKS:

i. 5.1.E.- biotic and abiotic factors in an ecosystem; predicting how ecosystem changes affect the flow of energy; humans impact the ecosystem
ii. 5.12.A.- organisms survive by interacting with biotic and abiotic factors.
iii. 5.12.B.- changes in the ecosystem and how human activities can be beneficial or harmful to an ecosystem.
iv. 5.13.A.- analyze the structures and functions of different species to identify how organisms survive in the same environment.

B. Math TEKS:

i. 5.3.(A)- estimate to determine solutions to mathematical and real-world problems.
ii. 5.1(B)- use problem-solving models

C. ELAR TEKS:

i. 5.6.(E)- make connections to personal experiences
ii. 5.6.(F)- make inferences and use evidence to support understanding
iii. 5.6. (H)- synthesize information to create new understanding
iv. 5.7.(C)- use text evidence to support an appropriate response

D. Social Studies TEKS:

i. 5.6.(B)- describe regions in the United States based on physical characteristics such as landform, climate, and vegetation
ii. 5.7(C)- analyze the geographic factors
iii. 5.8(A)- describe how and why people have adapted to and modified their environment in the United States
iv. 5.8(B)- analyze the positive and negative consequences of human modification of the environment

14. WEATHER EFFECTS HURRICANE

A. Science TEKS:

i. 5.5.F.- explain the relationship between the structure and function of objects, organisms, and systems.
ii. 5.5.G.- explain how factors or conditions impact stability and change in objects, organisms, and systems.
iii. 5.10.A.- explain how the Sun and the ocean interact in the water cycle and affect weather.
iv. 5.10.C.- identify how changes to Earth's surface by wind and water.

B. Math TEKS:

i. 5.7.- The student applies mathematical process standards to select appropriate units, strategies, and tools to solve problems involving measurements.
ii. 5.1(B)- use problem-solving models

C. ELAR TEKS:

i. 5.6(D)- create mental images to deepen understanding
ii. 5.6(F)- make inferences and use evidence to support understanding
iii. 5.6(H)- synthesize information to create new understanding
iv. 5.7(C)- use text evidence to support an appropriate response

D. Social Studies TEKS:

i. 5.6(B)- describe regions in the United States based on physical characteristics such as landform, climate, and vegetation
ii. 5.7(B)- explain the geographic factors that influence patterns of settlement and the distribution of population in the United
iii. 5.23(D)- identify different points of view about an issue, topic, historical event
iv. 5.23(E)- identify the historical context of an event

15. BASF PLAYFUL POLYMERS

A. Science TEKS:

i. 2.B.I.E., 3.B.I.E.- collect observations and measurements as evidence.
ii. 4.B.6.B.- investigate and compare a variety of mixtures, including solutions that are combined into a solution.
iii. 5.B.6.C.- compare the properties of substances before and after they are combined into a solution.

B. Math TEKS:

i. 2.1.(A), 3.1.(A), 4.1.(A), 5.1.(A)- apply math into everyday situations.
ii. 4.1(F)- analyze information
iii. 4.1(B), 5.1(B)- use problem-solving models
iv. 5.3(A)- estimate to determine solutions to mathematical

C. ELAR TEKS:

i. 2.6(C), 3.6.(C),4.6(C) - make and correct or confirm predictions
ii. 2.6(H),5.6(H)- synthesize information to create new understanding
iii. 3.6(F),4.6(F), 5.6(F)- make interferences and use evidence to support understanding

D. Social Studies TEKS:

i. 2.15(B)- interpret oral, visual, and print material by sequencing, categorizing
ii. 3.14(B)- interpret visual material by categorizing
iii. 4.19. (C), 5.23(C)- organize and interpret information from a variety of sources

16. SENSORY SCIENCE

A. Science TEKS:

i. 112.12 (b4A)- Collect and compare information using tools
ii. 112.12 (b2A)- Ask questions about objects in the natural world.
iii. 112.12 (b5A)- Classify objects by observable properties, larger and smaller, heavier and lighter, shape, color, and texture