



April 2024

# TEKS GUIDELINES

## 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 rules
- 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 inferences 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 inferences 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 inferences 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 resources 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 inferences 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