



Pre K2 Science

**1<sup>st</sup> Quarter (42Days)**

**Resources: Smart exchange Activities, hands on Activities and experiments, You Tube, PBS ,National Geographic**

<b>Week</b>	<b>Unit/Lesson</b>	<b>Learning Objectives</b>	<b>Vocabulary Terms</b>	<b>Reporting Categories ( TEKS SEs)</b>
<i>1<sup>st</sup> –Week</i>	<b>All about Me Welcome to school</b>	Being responsible. Discusses and models safety procedures in the classroom and during outdoor time.	Safety, independent, listen, help.	VI.D.1. Child practices good habits of personal safety.
<i>2<sup>nd</sup> –Week</i>	<b>All about Me Welcome to school</b>	The child: coughs and sneezes into their elbows (not cover their mouth with their hands). Washes hands after using the toilet and before snack and lunch.	Safety, hygiene, personal care. Tissue, hand washing.	VI.D.2. Child practices good habits of personal health and hygiene.
<i>3<sup>rd</sup> –Week</i>	<b>Healthy Habits</b>	The child: identifies and discusses nutritious healthy snacks.	Vegetables, fruit, snacks, nutrition, healthy.	VI.D.3. Child identifies good habits of nutrition and exercise.
<i>4<sup>th</sup> –Week</i>	<b>Healthy Habits</b>	Engages children in creating charts, class-made books, and collages of healthy and not so healthy foods. Models and provides healthy snacks.	Vegetables, fruit, snacks, nutrition, healthy.	VI.D.3. Child identifies good habits of nutrition and exercise
<i>5<sup>th</sup> –Week</i>	<b>Physical Science Five senses</b>	Identify the senses and their use. Experience different objects to identify our senses like food, different objects to touch and feel.	Touch, hear, see, smell, taste.	VI.D.1. Child practices good habits of personal safety
<i>6<sup>th</sup> –Week</i>	<b>Physical Science Body Parts</b>	Identify body parts and understand how to keep ourselves safe and healthy.	Hand, fingers, feet, toes, neck, head, shoulders, legs, knees etc.	VI.D.1. Child practices good habits of personal safety VI.D.1. Child practices good habits of personal safety
<i>7<sup>th</sup> –week</i>	<b>Primary and secondary colors. Mixing colors.</b>	Children will mix colors to make other colors (red and yellow finger paint to make orange).	Primary, secondary, mixing outcome.	VIII.A.1. Child uses a variety of art materials and activities for sensory experience and exploration.



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<b>8<sup>th</sup> –Week</b>	<b>Physical Science Heavy and light Hard and soft</b>	Children will sorts, groups, or classifies objects in meaningful ways based on one or more properties (hard/soft or heavy/light; materials that are made of – wood, plastic, rock, color).	Heavy, light, soft, hard, wood, plastic, rock, feather, cotton.	VI.A.1.Child describes, observes, and investigates properties and characteristics of common objects.
<i>9<sup>th</sup> –Week</i>	<b>Review and Assessment Healthy Habits, Movement and motion, Primary and secondary colors. Heavy and light Hard and soft. Hot and cold. Melt and Freeze</b>	Discusses nutritious healthy snacks. Objects motion. Sound and smell, colors, heavy, light, hard and soft.	Vegetables, fruit, snacks, nutrition, healthy. Roll, pull, push, slow, fast, straight, zigzag, round. Primary, secondary, mixing outcome. Heavy, light, soft, hard, wood, plastic, rock, feather, cotton.	VI.D.1. Child practices good habits of personal safety VI.A.2.Child investigates and describes position and motion of objects.

**2nd Quarter (45 Days)**

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<b>Week</b>	<b>Unit/Lesson</b>	<b>Learning Objectives</b>	<b>Vocabulary Terms</b>	<b>Reporting Categories ( TEKS SEs)</b>
<b>1<sup>st</sup> –Week</b>	<b>Physical science Hot and cold. Melt and Freeze</b>	Prompts children to observe and describe changes in nature (ice melting on a windowsill, water freezing in the freezer, steam rising from a kettle.	Ice, steam, hot, melt, freeze.	VI.A.1.Child describes, observes, and investigates properties and characteristics of common objects.
<i>2<sup>nd</sup> –Week</i>	<b>Physical science Sink and Float</b>	Children will practice and predicts whether materials will sink or float. Learn how objects or materials respond when they come in	Sink, float, heavy, light.	VI.A.1.Child describes, observes, and investigates properties and characteristics



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		contact with other things, such as being placed in water.		of common objects.
3 <sup>rd</sup> –Week	<b>Physical Science Magnet and non-magnet.</b>	Describes and compares the effects magnets have on other objects (attract to some things but not to others).	Metal, wood, magnet and non-magnet.	VI.A.1. Child describes, observes, and investigates properties and characteristics of common objects.
4 <sup>th</sup> –Week	<b>Physical Science Heavy and light.</b>	Children will investigate and discusses the mass of a variety of items (rocks, feathers, metal etc.) using a balance or scale; categorizes weighted objects, heavy and light.	Heavy, light, balance, finding.	VI.A.3.Child uses simple measuring devices to learn about objects.
5 <sup>th</sup> –Week	<b>Physical Science Long and Short</b>	Provide variety of materials to explore weight, length, and volume. Measures the length of different objects using scale.	Measure, long, short, scale.	VI.A.3.Child uses simple measuring devices to learn about objects.
6 <sup>th</sup> - Week	<b>Physical Science Temperature.</b>	Children will observe and describes temperature of materials like food, surface and outdoor air temperature (colder/warmer/hotter).	Hot, cold, warm, air, food, drinks, temperature. surface	VI.A.3.Child uses simple measuring devices to learn about objects.
7 <sup>th</sup> –Week	<b>Physical Science Energy</b>	The child will be able to describe sources of heat and light (sun, wind, and water as energy sources) and the safety issues associated with these. Make the object which	Heat, light, sun, wind, air, water, windmill, kite.	VI.A.4. Child investigates and describes sources of energy including light, heat, and electricity.



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		can run by air, like windmill. Use toys to understand it runs by batteries.		
<i>8<sup>th</sup> –Week</i>	<b>Physical Science Energy</b>	Identifies toys that need batteries and equipment in the home that needs electricity to function. . Use toys to understand it runs by batteries.	Electricity, batteries, toys.	VI.A.4. Child investigates and describes sources of energy including light, heat, and electricity.
<i>9<sup>th</sup> –week</i>	<b>Review and Assessment Hot and cold. Sink and Float Melt and Freeze, Magnet and non-magnet. Heavy and light, Long and Short, Temperature, Energy.</b>	Children will identify and compare objects, volume and length. Explain the energy and temperature.	Ice, steam, hot, melt, freeze. Sink and float, heavy, magnet and non-magnet. Heavy, long, short, Hot, cold, warm. Heat, light, sun, wind, air, water, hot, melt, freeze.	VI.A.1. Child describes, observes, and investigates properties. VI.A.3. Child uses simple measuring devices to learn about objects. VI.A.4. Child investigates and describes sources of energy including light, heat, and electricity.

**3rd Quarter (42 Days)**

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Week	Unit/Lesson	Learning Objectives	Vocabulary Terms	Reporting Categories ( TEKS SEs)
<i>1<sup>st</sup> –Week</i>	<b>Life Science Skills. Living things.</b>	Children will learn about animals, their need for food, water, air, and their habitat. Compares differences and similarities of animals live in water and land.	Animals, food, habitat, water, land.	VI.B.1. Child identifies and describes the characteristics of Organisms.



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	<b>Unit/Lesson</b>	<b>Learning Objectives</b>	<b>Vocabulary Terms</b>	<b>Reporting Categories ( TEKS SEs)</b>
<i>2<sup>nd</sup> –Week</i>	<b>Life Science Skills. Living and non-living.</b>	Compare flowers, insects, and animals, and tools (hand lens) for children to make comparisons of living characteristics and non-living characteristics.	Living and non-living compare.	VI.B.1. Child identifies and describes the characteristics of organisms.
<i>3<sup>rd</sup> –Week</i>	<b>Life Science Skills Life cycle of a plant.</b>	The child will learn about plants and seeds, then observes, discusses, and records plant growth.	Plant, seed, roots, leaves, bud, stem.	VI.B.2. Child describes life cycles of organisms.
<i>4<sup>th</sup> –Week</i>	<b>Life Science Skills Life cycle of a butterfly</b>	Children will discuss the stage of the life cycle of a butterfly.	Butterfly, caterpillar, pupa (cocoon), eggs.	VI.B.2. Child describes life cycles of organisms.
<i>5<sup>th</sup> –Week</i>	<b>Life Science Skills Life cycle of a bird</b>	Children will discuss the stage of the life cycle of a bird.	Bird, Chick, eggs, nest.	VI.B.2. Child describes life cycles of organisms.
<i>6<sup>th</sup> –Week</i>	<b>Earth and Space Science Skill. Earth</b>	Children will learn and identifies the importance of soil, sunlight, air, and water. Discuss how rocks and other natural materials are used by humans (soil in flower beds, rocks for construction).	Earth, soil, rocks, sunlight, water, air.	VI.C.1. Child identifies, compares, discusses earth materials, and their properties and uses.
<i>7<sup>th</sup> –Week</i>	<b>Earth and Space Science Skill. Sky</b>	Discuss about various objects in the sky clouds and their shapes. Discusses the night sky and compares the objects with the day sky. Finger painting the clouds, sun, star and moon in the sky.	Sky, sun, moon, star, planets, clouds.	VI.C.2. Child identifies, observes, and discusses objects in the sky.
<i>8<sup>th</sup> - Week</i>	<b>Earth and Space Science Skill. Weather</b>	Children will observe, records, and predicts daily weather changes (weather charts). Includes discussions about what to wear when the weather changes (rain, sleet, snow,	Rain, sleet, snow, storm, cloudy, sunny.	VI.C.3. Child observes and describes what happens during changes in the earth and sky.



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	Unit/Lesson	Learning Objectives	Vocabulary Terms	Reporting Categories ( TEKS SEs)
		sun, seasonal changes).		
9 <sup>th</sup> –week	<b>Review and Assessment Living and non-living. Life cycle of a plant. Life cycle of a butterfly, Life cycle of a bird, Earth, sky, weather.</b>	Children will identify the importance of soil, sunlight, air, and water. Life cycles, earth and sky objects, weather.	Rain, sleet, snow, storm, cloudy, sunny. Sky, sun, moon, star, planets, clouds. Animals, food, habitat, water, land. Plant, seed, roots, leaves, bud, stem	VI.C.1. Child identifies, compares, discusses earth materials, and their properties and uses. VI.C.2. Child identifies, observes, and discusses objects in the sky. VI.C.3. Child observes and describes what happens during changes in the earth and sky.

**4th Quarter (43 Days)**

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Week	Unit/Lesson	Learning Objectives	Vocabulary Terms	Reporting Categories ( TEKS SEs)
1 <sup>st</sup> –Week	<b>Earth and Space Science Skills Green Earth and Recycle</b>	Discuss “green” practices (water conservation, clean air, recycling, etc.) during hand washing, teeth brushing, etc.). Discuss with children the schools or communities. Recycling program and encourages families to practice recycling.	Water, green, recycles.	V1.C.4 Child demonstrates the Importance of caring for our environment and our planet.
	<b>Earth and Space Science Skills Green Earth and Recycle</b>	Recycling projects (not using as many paper towels, using both sides of the paper). Goes	Water, green, recycles	V1.C.4 Child demonstrates the Importance of caring for our



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**4th Quarter (43 Days)**

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Week	Unit/Lesson	Learning Objectives	Vocabulary Terms	Reporting Categories ( TEKS SEs)
		on a “trash hunt” to clean the school yard.		environment and our planet.
2 <sup>nd</sup> -Week	<b>Earth and Space Science Skills Green Earth and Recycle</b>	Recycling projects (not using as many paper towels, using both sides of the paper). Goes on a “trash hunt” to clean the school yard.	Water, green, recycles	V1.C.4 Child demonstrates the Importance of caring for our environment and our planet.
3 <sup>rd</sup> - week	<b>Physical Science Movement and motion</b>	Encourages children to explore motion both inside and outside of the classroom (cars on ramps, wagons to be pushed or pulled).	Roll, pull, push, slow, fast, straight, zigzag, round.	VI.A.2.Child investigates and describes position and motion of objects.
4 <sup>th</sup> -week	<b>Physical Science Movement and motion</b>	Plays games that use motion and/or sound (“Follow the Leader”). Provides a variety of materials for making sounds.	Roll, pull, push, slow, fast, straight, zigzag, round	VI.A.2.Child investigates and describes position and motion of objects
5 <sup>th</sup> -Week	<b>Healthy Habits Nutrition</b>	Identify difference between vegetable and fruit. Create activity for children to choose and show difference between fruits and vegetables.	Roots, trees, vines, underground, plants, fruit, vegetables.	VI.D.3. Child identifies good habits of nutrition and exercise
6 <sup>th</sup> -Week	<b>Healthy Habits Nutrition</b>	Identify difference between vegetable and fruit. Create activity for children to choose and show difference between fruits and vegetables.	Roots, trees, vines, underground, plants, fruit, vegetables.	VI.D.3. Child identifies good habits of nutrition and exercise
7 <sup>th</sup> -Week	<b>Review and assessment Earth and Space Science Skills Green Earth and Recycle Physical Science Movement and motion Healthy Habits</b>	Review “green” practices. Explore motion, review difference between vegetable and fruit.	Water, green, recycles Roll, pull, push, slow, fast, straight, zigzag, round Roots, trees, vines, underground, plants, fruit, vegetables.	V1.C.4 Child demonstrates the Importance of caring for our environment and our planet. VI.A.2.Child investigates and describes position and motion of objects. VI.D.3. Child



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Week	Unit/Lesson	Learning Objectives	Vocabulary Terms	Reporting Categories ( TEKS SEs)
	<b>Nutrition</b>			identifies good habits of nutrition and exercise
<i>8<sup>th</sup> –week</i>	<b>Review and Assessment Healthy Habits, Movement and motion, Primary and secondary colors. Heavy and light Hard and soft.</b>	Discusses nutritious healthy snacks. Objects motion. Sound and smell, colors, heavy, light, hard and soft	Vegetables, fruit, snacks, nutrition, healthy. Roll, pull, push, slow, fast, straight, zigzag, round. Primary, secondary, mixing outcome. Heavy, light, soft, hard, wood, plastic, rock, feather, cotton.	VI.D.1. Child practices good habits of personal safety VI.A.2. Child investigates and describes position and motion of objects. VI.A.1. Child describes, observes, and investigates properties and characteristics of common objects.