Science Vertical Alignment, *Birth – Grade 2*

	Infant, Toddler and Three-Year Old	Prekindergarten- PK4**	Kindergarten	Grade 1	Grade 2
Standards	Texas Infant, Toddler, and Three-Year Old Early Learning Guidelines	Texas Prekindergarten Guidelines	Texas Essential Knowledge and Skills (TEKS)*	Texas Essential Knowledge and Skills (TEKS)*	Texas Essential Knowledge and Skills (TEKS)*
Domain / Content Area	Cognitive Development ~Language and Communication Development	VI. Science Domain ***V. Mathematics Domain	Science	Science	Science
Sub- Domains / Strands	Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) Imitation and Make Believe (IMB) ~Communication and Speaking (CS)	 A. Physical Science A. Life Science B. Earth and Space Science ***D. Measurement ***E. Classifications and Patterns 	 Scientific and Engineering Practices Recurring Themes and Concepts Matter and Its Properties Force, Motion, and Energy Earth and Space Organisms and Environments 	 Scientific and Engineering Practices Recurring Themes and Concepts Matter and Its Properties Force, Motion, and Energy Earth and Space Organisms and Environments 	 Scientific and Engineering Practices Recurring Themes and Concepts Matter and Its Properties Force, Motion, and Energy Earth and Space Organisms and Environments

*Refers to the Science TEKS adopted in 2021

** There are no PK3 outcomes for this domain of learning.

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) Imitation and Make Believe (IMB) ~Communication and Speaking (CS)	 Prekindergarten-PK4 A. Physical Science ***V. Mathematics Domain PK3/PK4 D. Measurement E. Classification & Patterns 	Kindergarten K(1) Scientific and engineering practices. The student asks questions, identifies problems, and plans and safely conducts classroom, laboratory, and field investigations to answer questions, explain phenomena, or design solutions using appropriate tools and models. The student is expected to:	Grade 1 1(1) Scientific and engineering practices. The student asks questions, identifies problems, and plans and safely conducts classroom, laboratory, and field investigations to answer questions, explain phenomena, or design solutions using appropriate tools and models. The student is expected to:	Grade 2 2(1) Scientific and engineering practices. The student asks questions, identifies problems, and plans and safely conducts classroom, laboratory, and field investigations to answer questions, explain phenomena, or design solutions using appropriate tools and models. The student is expected to:
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. PS.1. Experiments with different uses for objects. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. 	PK4.VI.A.1 Child observes, investigates, describes, and discusses characteristics of common objects.	K(1)(A) ask questions and define problems based on observations or information from text, phenomena, models, or investigations.	1(1)(A) ask questions and define problems based on observations or information from text, phenomena, models, or investigations.	2(1)(A) ask questions and define problems based on observations or information from text, phenomena, models, or investigations.

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) Imitation and Make Believe (IMB) ~Communication and Speaking (CS)	 Prekindergarten-PK4 A. Physical Science ***V. Mathematics Domain PK3/PK4 D. Measurement E. Classification & Patterns 	Kindergarten K(1) Scientific and engineering practices. The student asks questions, identifies problems, and plans and safely conducts classroom, laboratory, and field investigations to answer questions, explain phenomena, or design solutions using appropriate tools and models. The student is expected to:	Grade 1 1(1) Scientific and engineering practices. The student asks questions, identifies problems, and plans and safely conducts classroom, laboratory, and field investigations to answer questions, explain phenomena, or design solutions using appropriate tools and models. The student is expected to:	Grade 2 2(1) Scientific and engineering practices. The student asks questions, identifies problems, and plans and safely conducts classroom, laboratory, and field investigations to answer questions, explain phenomena, or design solutions using appropriate tools and models. The student is expected to:
No standard present in the vertical progression	No standard present in the vertical progression	K(1)(B) use scientific practices to plan and conduct simple descriptive investigations and use engineering practices to design solutions to problems.	1(1)(B) use scientific practices to plan and conduct simple descriptive investigations and use engineering practices to design solutions to problems.	2(1)(B) use scientific practices to plan and conduct simple descriptive investigations and use engineering practices to design solutions to problems.
No standard present in the vertical progression	No standard present in the vertical progression	K(1)(C) identify, describe, and demonstrate safe practices during classroom and field investigations as outlined in Texas Education Agency- approved safety standards.	1(1)(C) identify, describe, and demonstrate safe practices during classroom and field investigations as outlined in Texas Education Agency- approved safety standards.	2(1)(C) identify, describe, and demonstrate safe practices during classroom and field investigations as outlined in Texas Education Agency- approved safety standards.

Infant, Toddler and Three-	Prekindergarten-PK4	Kindergarten	Grade 1	Grade 2
Year Old	A. Physical Science	K(1) Scientific and	1(1) Scientific and	2(1) Scientific and
Exploration and Discovery		engineering practices. The	engineering practices. The	engineering practices. The
. (ED)		student asks questions,	student asks questions,	student asks questions,
()	***V. Mathematics	identifies problems, and	identifies problems, and	identifies problems, and
Problem Solving (PS)	Domain PK3/PK4	plans and safely conducts	plans and safely conducts	plans and safely conducts
	D. Measurement	classroom, laboratory, and	classroom, laboratory, and	classroom, laboratory, and
		field investigations to answer	field investigations to answer	field investigations to answer
wiemory (wie)	E. Classification & Patterns	questions, explain	questions, explain	questions, explain
		phenomena, or design	phenomena, or design	phenomena, or design
Imitation and Make Believe		solutions using appropriate	solutions using appropriate	solutions using appropriate
(IMB)		tools and models. The	tools and models. The	tools and models. The
		student is expected to:	student is expected to:	student is expected to:
~Communication and				
Speaking (CS)				
ED.2. Uses senses to explore	PK4.VI.A.3 Child uses simple	K(1)(D) use tools, including	1(1)(D) use tools, including	2(1)(D) use tools, including
people, objects, and the	scientific tools to learn	hand lenses, goggles, trays,	hand lenses, goggles, heat-	hand lenses, goggles, heat-
environment.	about objects.	cups, bowls, sieves or sifters,	resistant gloves, trays, cups,	resistant gloves, trays, cups,
	PK3.V.D.1 Child understands	notebooks, terrariums,	bowls, beakers,	bowls, beakers, notebooks,
PS.1. Experiments with	that lengths of objects can	aquariums, samples (rocks,	sieves/sifters, tweezers,	stream tables, soil, sand,
different uses for objects.	vary and be compared.	sand, soil, loam, gravel, clay,	primary balance, notebooks,	gravel, flowering plants,
	PK4.V.D.1 Child recognizes	seeds, and plants), windsock,	terrariums, aquariums,	student thermometer,
PS.3. Applies knowledge to	and compares heights or	demonstration thermometer,	stream tables, soil samples	demonstration thermometer,
new situations.	lengths of people or objects.	rain gauge, straws, ribbons,	(loam, sand, gravel, rocks,	rain gauge, flashlights,
	PK3.V.D.2 Child begins to	non-standard measuring	and clay), seeds, plants,	ramps, balls, spinning tops,
ME.1. Shows ability to acquire	recognize capacity based on	items, blocks or cubes, tuning	windsock, pinwheel, student	drums, tuning forks,
and process new information.	how much space exists	fork, various flashlights, small	thermometer, demonstration	sandpaper, wax paper, items
	within an object.	paper cups, items that roll,	thermometer, rain gauge	that are flexible, non-flexible
ME.3. Recalls and uses	PK4.V.D.2 Child recognizes	noise makers, hot plate,	straws, ribbons, non-	items, magnets, hot plate,
information in new situations.	and compares capacity	opaque objects, transparent	standard measuring items,	aluminum foil, Sun Moon-
	based on how much space	objects, foil pie pans, foil	flashlights, sandpaper, wax	Earth model, and frog and
	exists within an object.	muffin cups, wax paper, Sun-	paper, items that are	butterfly life cycle models to
	PK3.V.D.3 Child understands	Moon-Earth model, and plant	magnetic, non-magnetic	observe, measure, test, and
	that weights of objects can	life cycle model to observe,	items, a variety of magnets,	compare.
	vary and be compared.	measure, test, and compare.	hot plate, aluminum foil, Sun,	
	PK4.V.D.3 Child recognizes		Moon-Earth model, and plant	
	and compares weights of		and animal life cycle models	
	objects.		to observe, measure, test,	
			and compare.	

Infant, Toddler and Three-	Prekindergarten-PK4	Kindergarten	Grade 1	Grade 2
Year Old	A. Physical Science	K(1) Scientific and	1(1) Scientific and	2(1) Scientific and
Exploration and Discovery		engineering practices. The	engineering practices. The	engineering practices. The
(ED)	***\/ Mathamatics	student asks questions,	student asks questions,	student asks questions,
	Domain DK2/DK4	identifies problems, and	identifies problems, and	identifies problems, and
Problem Solving (PS)	D Measurement	plans and salely conducts	plans and safely conducts	plans and salely conducts
	D. Wedstrement	field investigations to answer	field investigations to answer	field investigations to answer
Memory (ME)	F. Classification & Patterns	questions, explain	questions, explain	questions, explain
		phenomena, or design	phenomena, or design	phenomena, or design
Imitation and Make Believe		solutions using appropriate	solutions using appropriate	solutions using appropriate
(IMB)		tools and models. The	tools and models. The	tools and models. The
~Communication and		student is expected to:	student is expected to:	student is expected to:
Sneaking (CS)				
ED.2. Uses senses to explore	PK4.VI.A.3 Child uses simple	K(1)(E) collect observations	1(1)(E) collect observations	2(1)(E) collect observations
people, objects, and the	scientific tools to learn	and measurements as	and measurements as	and measurements as
environment.	about objects.	evidence.	evidence.	evidence.
	PK3.V.D.1 Child understands			
PS.1. Experiments with	that lengths of objects can			
different uses for objects.	vary and be compared.			
	PK4.V.D.1 Child recognizes			
	and compares heights or			
ME.1. Shows ability to acquire	lengths of people or objects.			
and process new information.	PK3.V.D.2 Child begins to			
ME 3 Recalls and uses	how much space exists			
information in new situations	within an object			
	PK4.V.D.2 Child recognizes			
	and compares capacity			
	based on how much space			
	exists within an object.			
	PK3.V.D.3 Child understands			
	that weights of objects can			
	vary and be compared.			
	PK4.V.D.3 Child recognizes			
	and compares weights of			
	00/2013.			

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) Imitation and Make Believe (IMB) ~Communication and Speaking (CS)	 Prekindergarten-PK4 A. Physical Science ***V. Mathematics Domain PK3/PK4 D. Measurement E. Classification & Patterns 	Kindergarten K(1) Scientific and engineering practices. The student asks questions, identifies problems, and plans and safely conducts classroom, laboratory, and field investigations to answer questions, explain phenomena, or design solutions using appropriate tools and models. The student is expected to:	Grade 1 1(1) Scientific and engineering practices. The student asks questions, identifies problems, and plans and safely conducts classroom, laboratory, and field investigations to answer questions, explain phenomena, or design solutions using appropriate tools and models. The student is expected to:	Grade 2 2(1) Scientific and engineering practices. The student asks questions, identifies problems, and plans and safely conducts classroom, laboratory, and field investigations to answer questions, explain phenomena, or design solutions using appropriate tools and models. The student is expected to:
ME.1. Shows ability to acquire and process new information.ME.3. Recalls and uses information in new situations.	 PK3.V.E.2 Child participates in group activities of collecting data and organizing it into graphic representations. PK4.V.E.2 Child collects data and organizes it in a graphic representation. 	K(1)(F) record and organize data using pictures, numbers, words, symbols, and simple graphs.	1(1)(F) record and organize data using pictures, numbers, words, symbols, and simple graphs.	2(1)(F) record and organize data using pictures, numbers, words, symbols, and simple graphs.
No standard present in the vertical progression	No standard present in the vertical progression	K(1)(G) develop and use models to represent phenomena, objects, and processes or design a prototype for a solution to a problem.	1(1)(G) develop and use models to represent phenomena, objects, and processes or design a prototype for a solution to a problem.	2(1)(G) develop and use models to represent phenomena, objects, and processes or design a prototype for a solution to a problem.

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	 Prekindergarten- PK4 A. Physical Science *V. Mathematics Domain-PK3/PK4 E. Classification & Patterns 	Kindergarten K(2) The student analyzes and interprets data to derive meaning, identify features and patterns, and discover relationships or correlations to develop evidence-based arguments or evaluate designs. The student is expected to:	Grade 1 1(2) The student analyzes and interprets data to derive meaning, identify features and patterns, and discover relationships or correlations to develop evidence-based arguments or evaluate designs. The student is expected to:	Grade 2 2(2) The student analyzes and interprets data to derive meaning, identify features and patterns, and discover relationships or correlations to develop evidence-based arguments or evaluate designs. The student is expected to:
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. PS.1. Experiments with different uses for objects. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. 	PK4.VI.A.1 Child observes,	K(2)(A) identify basic	1(2)(A) identify basic	2(2)(A) identify basic
	investigates, describes, and	advantages and limitations of	advantages and limitations of	advantages and limitations of
	discusses characteristics of	models such as their size,	models such as their size,	models such as their size,
	common objects.	properties, and materials.	properties, and materials.	properties, and materials.

ME.1. Shows ability to acquire and process new information.ME.3. Recalls and uses information in new situations.	 PK3.V.E.2 Child participates in group activities of collecting data and organizing it into graphic representations. PK4.V.E.2 Child collects data and organizes it in a graphic representation. PK3.V.E.3 Child recognizes and duplicates patterns. PK4.V.E.3 Child recognizes, duplicates, extends, and creates patterns. 	K(2)(B) analyze data by identifying any significant features and patterns.	1(2)(B) analyze data by identifying any significant features and patterns.	2(2)(B) analyze data by identifying any significant features and patterns.
 ED.2. Uses senses to explore people, objects, and the environment. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. CS.3. Uses language to engage in simple conversations. 	 PK3.V.E.1 Child sorts objects that are the same and different. PK4.V.E.1 Child sorts objects that are the same and different into groups and uses language to describe how the groups are similar and different. 	K(2)(C) use mathematical concepts to compare two objects with common attributes.	1(2)(C) use mathematical concepts to compare two objects with common attributes.	2(2)(C) use mathematical concepts to compare two objects with common attributes.
No standard present in the vertical progression	No standard present in the vertical progression	K(2)(D) evaluate a design or object using criteria to determine if it works as intended.	1(2)(D) evaluate a design or object using criteria to determine if it works as intended.	2(2)(D) evaluate a design or object using criteria to determine if it works as intended.

Infant, Toddler and Three- Year Old N/A Problem Solving (PS) Memory (ME)	Prekindergarten-PK4 N/A	Kindergarten K(3) The student develops evidence-based explanations and communicates findings, conclusions, and proposed solutions. The student is expected to:	Grade 1 1(3) The student develops evidence-based explanations and communicates findings, conclusions, and proposed solutions. The student is expected to:	Grade 2 2(3) The student develops evidence-based explanations and communicates findings, conclusions, and proposed solutions. The student is expected to:
No standard present in the vertical progression	No standard present in the vertical progression	K(3)(A) develop explanations and propose solutions supported by data and models.	1(3)(A) develop explanations and propose solutions supported by data and models.	2(3)(A) develop explanations and propose solutions supported by data and models.
No standard present in the vertical progression	No standard present in the vertical progression	K(3)(B) communicate explanations and solutions individually and collaboratively in a variety of settings and formats.	1(3)(B) communicate explanations and solutions individually and collaboratively in a variety of settings and formats.	2(3)(B) communicate explanations and solutions individually and collaboratively in a variety of settings and formats.
No standard present in the vertical progression	No standard present in the vertical progression	K(3)(C) listen actively to others' explanations to identify important evidence and engage respectfully in scientific discussion.	1(3)(C) listen actively to others' explanations to identify important evidence and engage respectfully in scientific discussion.	2(3)(C) listen actively to others' explanations to identify important evidence and engage respectfully in scientific discussion.

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 N/A	Kindergarten K(4) The student knows the contributions of scientists and recognizes the importance of scientific research and innovation on society. The student is expected to:	Grade 1 1(4) The student knows the contributions of scientists and recognizes the importance of scientific research and innovation on society. The student is expected to:	Grade 2 2(4) The student knows the contributions of scientists and recognizes the importance of scientific research and innovation for society. The student is expected to:
No standard present in the vertical progression	No standard present in the vertical progression	K(4)(A) explain how science, or an innovation can help others.	1(4)(A) explain how science, or an innovation can help others.	2(4)(A) explain how science, or an innovation can help others.
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. CS.3. Uses language to engage in simple conversations. 	PK4.VII.B.3 Child discusses the roles and responsibilities of family, school, and community helpers.	K(4)(B) identify scientists and engineers such as Isaac Newton, Mae Jemison, and Ynes Mexia and explore what different scientists and engineers do.	1(4)(B) identify scientists and engineers such as Isaac Newton, Mae Jemison, and Ynes Mexia and explore what different scientists and engineers do.	2(4)(B) identify scientists and engineers such as Isaac Newton, Mae Jemison, and Ynes Mexia and explore what different scientists and engineers do.

RECURRING THEMES AND CONCEPTS

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 A. Physical Science B. Life Science C. Earth and Space Science ***V. Mathematics Domain PK3/PK4 D. Measurement	Kindergarten K(5) The student uses recurring themes and concepts to make connections across disciplines. The student is expected to:	Grade 1 1(5) The student uses recurring themes and concepts to make connections across disciplines. The student is expected to:	Grade 2 2(5) The student uses recurring themes and concepts to make connections across disciplines. The student is expected to:
No standard present in the vertical progression	No standard present in the vertical progression	K(5)(A) identify and use patterns to describe phenomena or design solutions.	1(5)(A) identify and use patterns to describe phenomena or design solutions.	2(5)(A) identify and use patterns to describe phenomena or design solutions.
No standard present in the vertical progression	No standard present in the vertical progression	K(5)(B) investigate and predict cause-and-effect relationships in science.	1(5)(B) investigate and predict cause-and-effect relationships in science.	2(5)(B) investigate and predict cause-and-effect relationships in science.

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME)	Prekindergarten-PK4 A. Physical Science B. Life Science C. Earth and Space Science ***V. Mathematics Domain PK3/PK4 D. Measurement	Kindergarten K(5) The student uses recurring themes and concepts to make connections across disciplines. The student is expected to:	Grade 1 1(5) The student uses recurring themes and concepts to make connections across disciplines. The student is expected to:	Grade 2 2(5) The student uses recurring themes and concepts to make connections across disciplines. The student is expected to:
~Communication and Speaking (CS)				
ED.1. Pays attention and	PK4.VI.A.1 Child observes,	K(5)(C) describe the	1(5)(C) describe the	2(5)(C) measure and describe
and objects.	investigates, describes, and discusses characteristics of common objects.	properties of objects in terms of relative size (scale) and relative quantity.	properties of objects in terms of relative size (scale) and relative quantity.	the properties of objects in terms of size (scale) and quantity.
ED.2. Uses senses to explore	PK3.V.D.1 Child understands	. ,		
people, objects, and the	that lengths of objects can			
environment.	vary and be compared.			
ME 1 Shows ability to	and compares heights or			
acquire and process new	lengths of people or objects.			
information.	PK3.V.D.2 Child begins to recognize capacity based on			
CS.1. Uses consistent sounds,	how much space exists			
gestures, or words to	within an object.			
communicate for a variety of	PK4.V.D.2 Child recognizes			
purposes.	and compares capacity based			
CS.3 . Uses language to	within an object.			
engage in simple	PK3.V.D.3 Child understands			
conversations.	that weights of objects can			
	vary and be compared.			
	PK4.V.D.3 Child recognizes			
	obiects.			

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 A. Physical Science B. Life Science C. Earth and Space Science ***V. Mathematics Domain PK3/PK4 D. Measurement	Kindergarten K(5) The student uses recurring themes and concepts to make connections across disciplines. The student is expected to:	Grade 1 1(5) The student uses recurring themes and concepts to make connections across disciplines. The student is expected to:	Grade 2 2(5) The student uses recurring themes and concepts to make connections across disciplines. The student is expected to:
No standard present in the vertical progression	No standard present in the vertical progression	K(5)(D) examine the parts of a whole to define or model a system.	1(5)(D) examine the parts of a whole to define or model a system.	2(5)(D) examine the parts of a whole to define or model a system.
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. PS.1. Experiments with different uses for objects. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. CS.3. Uses language to engage in simple conversations. 	PK4.VI.A.4 Child observes, investigates, describes, and discusses sources of energy including light, heat, and electricity.	K(5)(E) identify forms of energy and properties of matter.	1(5)(E) identify forms of energy and properties of matter.	2(5)(E) identify forms of energy and properties of matter.

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and	Prekindergarten-PK4 A. Physical Science B. Life Science C. Earth and Space Science ***V. Mathematics Domain PK3/PK4 D. Measurement	Kindergarten K(5) The student uses recurring themes and concepts to make connections across disciplines. The student is expected to:	Grade 1 1(5) The student uses recurring themes and concepts to make connections across disciplines. The student is expected to:	Grade 2 2(5) The student uses recurring themes and concepts to make connections across disciplines. The student is expected to:
Speaking (CS)				
ED.1. Pays attention and exhibits curiosity in people and objects.	PK4.VI.A.1 Child observes, investigates, describes, and discusses characteristics of common objects.	K(5)(F) describe the relationship between the structure and function of objects, organisms, and	1(5)(F) describe the relationship between the structure and function of objects, organisms, and	2(5)(F) describe the relationship between the structure and function of objects, organisms, and
ED.2. Uses senses to explore		systems.	systems.	systems.
people, objects, and the	PK4.VI.B.1 Child observes,			
environment.	investigates, describes, and discusses the characteristics			
PS.1. Experiments with different uses for objects.	of organisms.			
	PK4.VI.B.3 Child observes,			
ME.1. Shows ability to acquire and process new information.	investigates, describes, and discusses the relationship of organisms in their environments.			
ME.3. Recalls and uses information in new situations.				
CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes.				
CS.3. Uses language to engage in simple conversations.				

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 A. Physical Science B. Life Science C. Earth and Space Science ***V. Mathematics Domain PK3/PK4 D. Measurement	Kindergarten K(5) The student uses recurring themes and concepts to make connections across disciplines. The student is expected to:	Grade 1 1(5) The student uses recurring themes and concepts to make connections across disciplines. The student is expected to:	Grade 2 2(5) The student uses recurring themes and concepts to make connections across disciplines. The student is expected to:
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. ED.4. Makes things happen and watches for results and repeats actions. PS.1. Experiments with different uses for objects. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. CS.3. Uses language to engage in simple conversations. 	 PK4.VI.A.2 Child observes, investigates, describes, and discusses position and motion of objects. PK4.VI.B.1 Child observes, investigates, describes, and discusses the characteristics of organisms. PK4.VI.B.3 Child observes, investigates, describes, and discusses the relationship of organisms in their environments. PK4.VI.C.3 Child observes and describes what happens during changes in the earth and sky. 	K(5)(G) describe how factors or conditions can cause objects, organisms, and systems to either change or stay the same.	1(5)(G) describe how factors or conditions can cause objects, organisms, and systems to either change or stay the same.	2(5)(G) describe how factors or conditions can cause objects, organisms, and systems to either change or stay the same.

MATTER AND ITS PROPERTIES

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 A. Physical Science	Kindergarten K(6) The student knows that objects have physical properties that determine how they are described and classified. The student is expected to:	Grade 1 1(6) The student knows that objects have physical properties that determine how they are described and classified. The student is expected to:	Grade 2 2(6) The student knows that matter has physical properties that determine how it is described, classified, and used. The student is expected to:
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. PS.1. Experiments with different uses for objects. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. 	 PK4.VI.A.1 Child observes, investigates, describes, and discusses characteristics of common objects. PK3.V.E.1 Child sorts objects that are the same and different. PK4.V.E.1 Child sorts objects that are the same and different into groups and uses language to describe how the groups are similar and different. 	K(6)(A) identify and record observable physical properties of objects, including shape, color, texture, and material, and generate ways to classify objects.	1(6)(A) classify objects by observable physical properties, including, shape, color, and texture, and attributes such as larger and smaller and heavier and lighter.	2(6)(A) classify matter by observable physical properties, including texture, flexibility, and relative temperature, and identify whether a material is a solid or liquid.

 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. PS.1. Experiments with different uses for objects. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. 	PK4.VI.A.4 Child observes, investigates, describes, and discusses sources of energy including light, heat, and electricity.	No standard present in the vertical progression	1(6)(B) explain and predict changes in materials caused by heating and cooling.	2(6)B) conduct a descriptive investigation to explain how physical properties can be changed through processes such as cutting, folding, sanding, melting, or freezing.
No standard present in the vertical progression	No standard present in the vertical progression	No standard present in the vertical progression	1(6)(C) demonstrate and explain that a whole object is a system made of organized parts such as a toy that can be taken apart and put back together.	2(6)(C) demonstrate that 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.

FORCE, MOTION AND ENERGY

Infant, Toddler and Three-Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME)	Prekindergarten-PK4 A. Physical Science	Kindergarten K(7) The student knows that forces cause changes in motion and position in everyday life. The student is expected to:	Grade 1 1(7) The student knows that forces cause changes in motion and position in everyday life. The student is expected to:	Grade 2 2(7) The student knows that forces cause changes in motion and position in everyday life. The student is expected to:
Imitation and Make Believe (IMB) ~Communication and Speaking (CS)				
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. ED.4. Makes things happen and watches for results and repeats actions. PS.1. Experiments with different uses for objects. PS.3. Applies knowledge to new situations. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. IMB.1. Uses objects in new ways or in pretend play. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. 	 PK4.VI.A.1 Child observes, investigates, describes, and discusses characteristics of common objects. PK4.VI.A.2 Child observes, investigates, describes, and discusses position and motion of objects. PK4.VI.A.3 Child uses simple scientific tools to learn about objects. 	K(7)(A) describe and predict how a magnet interacts with various materials and how magnets can be used to push or pull.	No standard present in the vertical progression	No standard present in the vertical progression

ED.1. Pays attention and exhibits	PK4.VI.A.1 Child observes,	No standard present in the	No standard present in the	2(7)(A) explain how
curiosity in people and objects.	investigates, describes, and	vertical progression	vertical progression	objects push on each
	discusses characteristics of			other and may change
ED.2. Uses senses to explore	common objects.			shape when they touch or
people, objects, and the				collide.
environment.	PK4.VI.A.2 Child observes,			
	investigates, describes, and			
ED.4. Makes things happen and	discusses position and			
actions	motion of objects.			
PS.1. Experiments with different				
uses for objects.				
ME.1. Shows ability to acquire and				
process new information.				
ME.3. Recalls and uses				
information in new situations.				
CS 1 Uses consistent sounds				
gestures, or words to				
communicate for a variety of				
, purposes.				

ED.1. Pays attention and exhibits	PK4.VI.A.2 Child observes,	No standard present in the	1(7)(A) explain how pushes	2(7)(B) plan and conduct a
curiosity in people and objects.	investigates, describes, and	vertical progression	and pulls can start, stop, or	descriptive investigation
	discusses position and		change the speed or	to demonstrate how the
ED.2. Uses senses to explore	motion of objects.		direction of an object's	strength of a push and
people, objects, and the			motion.	pull changes an object's
environment.				motion.
			1(7)(B) plan and conduct a	
ED.4. Makes things happen and			descriptive investigation	
watches for results and repeats			that predicts how pushes	
actions.			and pulls can start, stop, or	
			change the speed or	
PS.1. Experiments with different			direction of an object's	
uses for objects.			motion.	
NAT 1 Channe shilitu ta assuira and				
ME.1. Shows ability to acquire and				
process new information.				
ME 2 Pacalls and uses				
information in new situations				
mormation in new situations.				
CS.1 . Uses consistent sounds				
gestures or words to				
communicate for a variety of				
purposes.				

FORCE, MOTION AND ENERGY

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 A. Physical Science C. Earth and Space Science	Kindergarten K(8) The student knows that energy is everywhere and can be observed in everyday life. The student is expected to:	Grade 1 1(8) The student knows that energy is everywhere and can be observed in everyday life. The student is expected to:	Grade 2 2(8) The student knows that energy is everywhere and can be observed in everyday life. The student is expected to: AND 2(6) The student knows that matter has physical properties that determine how it is described, classified, and used. The student is
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. PS.1. Experiments with different uses for objects. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. 	 PK4.VI.A.4 Child observes, investigates, describes, and discusses sources of energy including light, heat, and electricity. PK4.VI.C.2 Child identifies, observes, describes, and discusses objects in the sky. PK4.VI.C.3 Child observes and describes what happens during changes in the earth and sky. 	K(8)(A) communicate the idea that objects can only be seen when a light source is present and compare the effects of different amounts of light on the appearance of objects.	No standard present in the vertical progression	No standard present in the vertical progression

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 A. Physical Science C. Earth and Space Science	Kindergarten K(8) The student knows that energy is everywhere and can be observed in everyday life. The student is expected to:	Grade 1 1(8) The student knows that energy is everywhere and can be observed in everyday life. The student is expected to:	Grade 2 2(8) The student knows that energy is everywhere and can be observed in everyday life. The student is expected to: AND 2(6) The student knows that matter has physical properties that determine how it is described, classified, and used. The student is expected to:
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. PS.1. Experiments with different uses for objects. PS.3. Applies knowledge to new situations. ME.1. Shows ability to acquire and process new 	 PK4.VI.A.4 Child observes, investigates, describes, and discusses sources of energy including light, heat, and electricity. PK4.VI.C.2 Child identifies, observes, describes, and discusses objects in the sky. PK4.VI.C.3 Child observes and describes what happens during changes in the earth and sky. 	K(8)(B) demonstrate and explain that light travels through some objects and is blocked by other objects, creating shadows.	No standard present in the vertical progression	No standard present in the vertical progression
ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes.				

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 A. Physical Science C. Earth and Space Science	Kindergarten K(8) The student knows that energy is everywhere and can be observed in everyday life. The student is expected to:	Grade 1 1(8) The student knows that energy is everywhere and can be observed in everyday life. The student is expected to:	Grade 2 2(8) The student knows that energy is everywhere and can be observed in everyday life. The student is expected to: AND 2(6) The student knows that matter has physical properties that determine how it is described, classified, and used. The student is expected to:
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. PS.1. Experiments with different uses for objects. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. 	PK4.VI.A.4 Child observes, investigates, describes, and discusses sources of energy including light, heat, and electricity.	No standard present in the vertical progression	 1(8)(A) investigate and describe applications of heat in everyday life such as cooking food or using a clothes dryer. 1(8)(B) describe how some changes caused by heat may be reversed such as melting butter and other changes cannot be reversed such as cooking an egg or baking a cake. 	2(6)(B) conduct a descriptive investigation to explain how physical properties can be changed through processes such as cutting, folding, sanding, melting, or freezing.

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME)	Prekindergarten-PK4 A. Physical Science C. Earth and Space Science	Kindergarten K(8) The student knows that energy is everywhere and can be observed in everyday life. The student is expected to:	Grade 1 1(8) The student knows that energy is everywhere and can be observed in everyday life. The student is expected to:	Grade 2 2(8) The student knows that energy is everywhere and can be observed in everyday life. The student is expected to: AND 2(6) The student knows that matter has physical
~Communication and Speaking (CS)				how it is described, classified, and used. The student is expected to:
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. PS.1. Experiments with different uses for objects. ME.1. Shows ability to acquire and process new information. 	PK4.VI.A.1 Child observes, investigates, describes, and discusses characteristics of common objects.	No standard present in the vertical progression	No standard present in the vertical progression	2(8)(A) demonstrate and explain that sound is made by vibrating matter and that vibrations can be caused by a variety of means, including sound.
 ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. 				

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 A. Physical Science C. Earth and Space Science	Kindergarten K(8) The student knows that energy is everywhere and can be observed in everyday life. The student is expected to:	Grade 1 1(8) The student knows that energy is everywhere and can be observed in everyday life. The student is expected to:	Grade 2 2(8) The student knows that energy is everywhere and can be observed in everyday life. The student is expected to: AND 2(6) The student knows that matter has physical properties that determine how it is described, classified, and used. The student is expected to:
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. PS.1. Experiments with different uses for objects. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. 	PK4.VI.A.1 Child observes, investigates, describes, and discusses characteristics of common objects.	No standard present in the vertical progression	No standard present in the vertical progression	2(8)(B) Explain how different levels of sound are used in everyday life such as a whisper in a classroom or a fire alarm.

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 A. Physical Science C. Earth and Space Science	Kindergarten K(8) The student knows that energy is everywhere and can be observed in everyday life. The student is expected to:	Grade 1 1(8) The student knows that energy is everywhere and can be observed in everyday life. The student is expected to:	Grade 2 2(8) The student knows that energy is everywhere and can be observed in everyday life. The student is expected to: AND 2(6) The student knows that matter has physical properties that determine how it is described, classified, and used. The student is expected to:
No standard present in the vertical progression	No standard present in the vertical progression	No standard present in the vertical progression	No standard present in the vertical progression	2(8)(C) design and build a device using tools and materials that uses sound to solve the problem of communicating over a distance.

EARTH AND SPACE

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 C. Earth and Space Science	Kindergarten K(9) The student knows that there are recognizable patterns in the natural world and among objects in the sky. The student is expected to: AND K(10) The student knows that the natural world includes earth materials and systems that can be observed. The student is expected to:	Grade 1 1(9) The student knows that the natural world has recognizable patterns. The student is expected to: AND 1(10) The student knows that the natural world includes earth materials that can be observed in systems and processes. The student is expected to:	Grade 2 2(9) The student knows that there are recognizable patterns in the natural world and among objects in the sky. The student is expected to: AND 2(10) The student knows that the natural world includes earth materials that can be observed in systems and processes. The student is expected to:
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. PS.1. Experiments with different uses for objects. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. 	PK4.VI.C.2 Child identifies, observes, describes, and discusses objects in the sky.	K(9)(A) identify, describe, and predict the patterns of day and night and their observable characteristics.	No standard present in the vertical progression	No standard present in the vertical progression

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 C. Earth and Space Science	Kindergarten K(9) The student knows that there are recognizable patterns in the natural world and among objects in the sky. The student is expected to: AND K(10) The student knows that the natural world includes earth materials and systems that can be observed. The student is expected to:	Grade 1 1(9) The student knows that the natural world has recognizable patterns. The student is expected to: AND 1(10) The student knows that the natural world includes earth materials that can be observed in systems and processes. The student is expected to:	Grade 2 2(9) The student knows that there are recognizable patterns in the natural world and among objects in the sky. The student is expected to: AND 2(10) The student knows that the natural world includes earth materials that can be observed in systems and processes. The student is expected to:
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. PS.1. Experiments with different uses for objects. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. 	PK4.VI.C.2 Child identifies, observes, describes, and discusses objects in the sky.	No standard present in the vertical progression	No standard present in the vertical progression	2(9)(A) describe the Sun as a star that provides light and heat and explain that the Moon reflects the Sun's light.

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 C. Earth and Space Science	Kindergarten K(9) The student knows that there are recognizable patterns in the natural world and among objects in the sky. The student is expected to: AND K(10) The student knows that the natural world includes earth materials and systems that can be observed. The student is expected to:	Grade 1 1(9) The student knows that the natural world has recognizable patterns. The student is expected to: AND 1(10) The student knows that the natural world includes earth materials that can be observed in systems and processes. The student is expected to:	Grade 2 2(9) The student knows that there are recognizable patterns in the natural world and among objects in the sky. The student is expected to: AND 2(10) The student knows that the natural world includes earth materials that can be observed in systems and processes. The student is expected to:
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. PS.1. Experiments with different uses for objects. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. 	PK4.VI.C.2 Child identifies, observes, describes, and discusses objects in the sky. PK4.VI.A.3 Child uses simple scientific tools to learn about objects.	K(9)(B) observe, describe, and illustrate the Sun, Moon, stars, and objects in the sky such as clouds.	No standard present in the vertical progression	2(9)(B) observe objects in the sky using tools such as a telescope and compare how objects in the sky are more visible and can appear different with a tool than with an unaided eye.

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 C. Earth and Space Science	Kindergarten K(9) The student knows that there are recognizable patterns in the natural world and among objects in the sky. The student is expected to: AND K(10) The student knows that the natural world includes earth materials and systems that can be observed. The student is expected to:	Grade 1 1(9) The student knows that the natural world has recognizable patterns. The student is expected to: AND 1(10) The student knows that the natural world includes earth materials that can be observed in systems and processes. The student is expected to:	Grade 2 2(9) The student knows that there are recognizable patterns in the natural world and among objects in the sky. The student is expected to: AND 2(10) The student knows that the natural world includes earth materials that can be observed in systems and processes. The student is expected to:
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. PS.1. Experiments with different uses for objects. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. 	PK4.VI.C.1 Child observes, investigates, describes, and discusses earth materials, and their properties and uses.	K(10)(A) describe and classify rocks by the observable properties of size, shape, color, and texture.	No standard present in the vertical progression	No standard present in the vertical progression

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 C. Earth and Space Science	Kindergarten K(9) The student knows that there are recognizable patterns in the natural world and among objects in the sky. The student is expected to: AND K(10) The student knows that the natural world includes earth materials and systems that can be observed. The student is expected to:	Grade 1 1(9) The student knows that the natural world has recognizable patterns. The student is expected to: AND 1(10) The student knows that the natural world includes earth materials that can be observed in systems and processes. The student is expected to:	Grade 2 2(9) The student knows that there are recognizable patterns in the natural world and among objects in the sky. The student is expected to: AND 2(10) The student knows that the natural world includes earth materials that can be observed in systems and processes. The student is expected to:
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. PS.1. Experiments with different uses for objects. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. 	PK4.VI.C.1 Child observes, investigates, describes, and discusses earth materials, and their properties and uses.	No standard present in the vertical progression	1(10)(A) investigate and document the properties of particle size, shape, texture, and color and the components of different types of soils such as topsoil, clay, and sand.	No standard present in the vertical progression

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 C. Earth and Space Science	Kindergarten K(9) The student knows that there are recognizable patterns in the natural world and among objects in the sky. The student is expected to: AND K(10) The student knows that the natural world includes earth materials and systems that can be observed. The student is expected to:	Grade 1 1(9) The student knows that the natural world has recognizable patterns. The student is expected to: AND 1(10) The student knows that the natural world includes earth materials that can be observed in systems and processes. The student is expected to:	Grade 2 2(9) The student knows that there are recognizable patterns in the natural world and among objects in the sky. The student is expected to: AND 2(10) The student knows that the natural world includes earth materials that can be observed in systems and processes. The student is expected to:
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. PS.1. Experiments with different uses for objects. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. 	PK4.VI.C.1 Child observes, investigates, describes, and discusses earth materials, and their properties and uses.	No standard present in the vertical progression	1(10)(B) investigate and describe how water can move rock and soil particles from one place to another.	2(10)(A) investigate and describe how wind and water move soil and rock particles across the Earth's surface such as wind blowing sand into dunes on a beach or a river carrying rocks as it flows.

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 C. Earth and Space Science	Kindergarten K(9) The student knows that there are recognizable patterns in the natural world and among objects in the sky. The student is expected to: AND K(10) The student knows that the natural world includes earth materials and systems that can be observed. The student is expected to:	Grade 1 1(9) The student knows that the natural world has recognizable patterns. The student is expected to: AND 1(10) The student knows that the natural world includes earth materials that can be observed in systems and processes. The student is expected to:	Grade 2 2(9) The student knows that there are recognizable patterns in the natural world and among objects in the sky. The student is expected to: AND 2(10) The student knows that the natural world includes earth materials that can be observed in systems and processes. The student is expected to:
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. PS.1. Experiments with different uses for objects. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. 	 PK4.VI.C.2 Child identifies, observes, describes, and discusses objects in the sky. PK4.VI.C.3 Child observes and describes what happens during changes in the earth and sky. 	K(10)(B) observe and describe weather changes from day to day and over seasons.	1(9)(A) describe and predict the patterns of seasons of the year such as order of occurrence and changes in nature.	No standard present in the vertical progression

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 C. Earth and Space Science	Kindergarten K(9) The student knows that there are recognizable patterns in the natural world and among objects in the sky. The student is expected to: AND K(10) The student knows that the natural world includes earth materials and systems that can be observed. The student is expected to:	Grade 1 1(9) The student knows that the natural world has recognizable patterns. The student is expected to: AND 1(10) The student knows that the natural world includes earth materials that can be observed in systems and processes. The student is expected to:	Grade 2 2(9) The student knows that there are recognizable patterns in the natural world and among objects in the sky. The student is expected to: AND 2(10) The student knows that the natural world includes earth materials that can be observed in systems and processes. The student is expected to:
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. PS.1. Experiments with different uses for objects. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. 	 PK4.VI.C.3 Child observes and describes what happens during changes in the earth and sky. PK4.VI.A.2 Child observes, investigates, describes, and discusses position and motion of objects. 	K(10)(C) identify evidence that supports the idea that air is all around us and demonstrate that wind is moving air using items such as a windsock, pinwheel, or ribbon.	No standard present in the vertical progression	No standard present in the vertical progression

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 C. Earth and Space Science	Kindergarten K(9) The student knows that there are recognizable patterns in the natural world and among objects in the sky. The student is expected to: AND K(10) The student knows that the natural world includes earth materials and systems that can be observed. The student is expected to:	Grade 1 1(9) The student knows that the natural world has recognizable patterns. The student is expected to: AND 1(10) The student knows that the natural world includes earth materials that can be observed in systems and processes. The student is expected to:	Grade 2 2(9) The student knows that there are recognizable patterns in the natural world and among objects in the sky. The student is expected to: AND 2(10) The student knows that the natural world includes earth materials that can be observed in systems and processes. The student is expected to:
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. PS.1. Experiments with different uses for objects. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. 	PK4.VI.C.1 Child observes, investigates, describes, and discusses earth materials, and their properties and uses.	No standard present in the vertical progression	1(10)(C) compare the properties of puddles, ponds, streams, rivers, lakes, and oceans, including color, clarity, size, shape, and whether it is freshwater or saltwater.	No standard present in the vertical progression

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 C. Earth and Space Science	Kindergarten K(9) The student knows that there are recognizable patterns in the natural world and among objects in the sky. The student is expected to: AND K(10) The student knows that the natural world includes earth materials and systems that can be observed. The student is expected to:	Grade 1 1(9) The student knows that the natural world has recognizable patterns. The student is expected to: AND 1(10) The student knows that the natural world includes earth materials that can be observed in systems and processes. The student is expected to:	Grade 2 2(9) The student knows that there are recognizable patterns in the natural world and among objects in the sky. The student is expected to: AND 2(10) The student knows that the natural world includes earth materials that can be observed in systems and processes. The student is expected to:
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. PS.1. Experiments with different uses for objects. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. 	 PK4.VI.C.2 Child identifies, observes, describes, and discusses objects in the sky. PK4.VI.C.3 Child observes and describes what happens during changes in the earth and sky. PK3.V.E.2 Child participates in group activities of collecting data and organizing it into graphic representations PK4.V.E.2 Child collects data and organizes it in a graphic representation. 	No standard present in the vertical progression	1(10)(D) describe and record observable characteristics of weather, including hot or cold, clear or cloudy, calm or windy, and rainy or icy, and explain the impact of weather on daily choices.	2(10)(B) measure, record, and graph weather information, including temperature and precipitation.

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 C. Earth and Space Science	Kindergarten K(9) The student knows that there are recognizable patterns in the natural world and among objects in the sky. The student is expected to: AND K(10) The student knows that the natural world includes earth materials and systems that can be observed. The student is expected to:	Grade 1 1(9) The student knows that the natural world has recognizable patterns. The student is expected to: AND 1(10) The student knows that the natural world includes earth materials that can be observed in systems and processes. The student is expected to:	Grade 2 2(9) The student knows that there are recognizable patterns in the natural world and among objects in the sky. The student is expected to: AND 2(10) The student knows that the natural world includes earth materials that can be observed in systems and processes. The student is expected to:
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. PS.1. Experiments with different uses for objects. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. 	 PK4.VI.C.2 Child identifies, observes, describes, and discusses objects in the sky. PK4.VI.C.3 Child observes and describes what happens during changes in the earth and sky. 	No standard present in the vertical progression	No standard present in the vertical progression	2(10)(C) investigate different types of severe weather events such as a hurricane, tornado, or flood and explain that some events are more likely than others in a given region.

EARTH AND SPACE

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 C. Earth and Space	Kindergarten K(11) The student knows that earth materials are important to everyday life. The student is expected to:	Grade 1 1(11) The student knows that earth materials and products made from these materials are important to everyday life. The student is expected to:	Grade 2 2(11) The student knows that earth materials and products made from these materials are important to everyday life. The student is expected to:
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. PS.1. Experiments with different uses for objects. PS.3. Applies knowledge to new situations. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes 	 PK4.VI.C.1 Child observes, investigates, describes, and discusses earth materials, and their properties and uses. PK4.VI.C.4 Child demonstrates an understanding of the importance of caring for our environment and our planet. 	K(11)(A) observe and generate examples of practical uses for rocks, soil, and water.	1(11)(A) identify and describe how plants, animals, and humans use rocks, soil, and water.	2(11)(A) distinguish between natural and manmade resources.

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 C. Earth and Space	Kindergarten K(11) The student knows that earth materials are important to everyday life. The student is expected to:	Grade 1 1(11) The student knows that earth materials and products made from these materials are important to everyday life. The student is expected to:	Grade 2 2(11) The student knows that earth materials and products made from these materials are important to everyday life. The student is expected to:
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. PS.1. Experiments with different uses for objects. PS.3. Applies knowledge to new situations. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. 	PK4.VI.C.4 Child demonstrates an understanding of the importance of caring for our environment and our planet.	No standard present in the vertical progression	1(11)(B) explain why water conservation is important.	2(11)(B) describe how human impact can be limited by making choices to conserve and properly dispose of materials such as reducing use of, reusing, or recycling paper, plastic, and metal.

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 C. Earth and Space	Kindergarten K(11) The student knows that earth materials are important to everyday life. The student is expected to:	Grade 1 1(11) The student knows that earth materials and products made from these materials are important to everyday life. The student is expected to:	Grade 2 2(11) The student knows that earth materials and products made from these materials are important to everyday life. The student is expected to:
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. PS.3. Applies knowledge to new situations. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. 	PK4.VI.C.4 Child demonstrates an understanding of the importance of caring for our environment and our planet.	No standard present in the vertical progression	1(11)(C) describe ways to conserve water such as turning off the faucet when brushing teeth and protect natural sources of water such as keeping trash out of bodies of water.	No standard present in the vertical progression

ORGANISMS AND ENVIRONMENTS

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 B. Life Science C. Earth and Space Science	Kindergarten K(12) The student knows that plants and animals depend on the environment to meet their basic needs for survival. The student is expected to: AND K(13) The student knows that organisms resemble their parents and have structures and undergo processes that help them interact and survive within their environments. The student is	Grade 1 1(12) The student knows that the environment is composed of relationships between living organisms and nonliving components. The student is expected to: AND 1(13) The student knows that organisms resemble their parents and have structures and undergo processes that help them interact and survive within their	Grade 2 2(12) The student knows that living organisms have basic needs that must be met through interactions within their environment. The student is expected to: AND 2(13) The student knows that organisms have structures and undergo processes that help them interact and survive within their environments. The student is
		expected to:	environments. The student is expected to:	expected to:
ED.1. Pays attention and exhibits curiosity in people and objects.ED.2. Uses senses to explore	PK4.VI.C.1 Child observes, investigates, describes, and discusses earth materials, and their properties and uses.	K(12)(A) observe and identify the dependence of plants on air, sunlight, water, nutrients in the soil, and space to grow.	No standard present in the vertical progression	No standard present in the vertical progression
environment.	PK4.VI.C.3 Child observes and describes what			
PS.1. Experiments with different uses for objects.	happens during changes in the earth and sky.			
ME.1. Shows ability to acquire and process new information.				
ME.3. Recalls and uses information in new situations.				
CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes.				

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 B. Life Science C. Earth and Space Science	Kindergarten K(12) The student knows that plants and animals depend on the environment to meet their basic needs for survival. The student is expected to: AND K(13) The student knows that organisms resemble their parents and have structures and undergo processes that help them interact and survive within their environments. The student is expected to:	Grade 1 1(12) The student knows that the environment is composed of relationships between living organisms and nonliving components. The student is expected to: AND 1(13) The student knows that organisms resemble their parents and have structures and undergo processes that help them interact and survive within their environments. The student is expected to:	Grade 2 2(12) The student knows that living organisms have basic needs that must be met through interactions within their environment. The student is expected to: AND 2(13) The student knows that organisms have structures and undergo processes that help them interact and survive within their environments. The student is expected to:
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. PS.1. Experiments with different uses for objects. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. 	 PK4.VI.B.1 Child observes, investigates, describes, and discusses the characteristics of organisms. PK4.VI.B.3 Child observes, investigates, describes, and discusses the relationship of organisms in their environments. PK4.VI.C.1 Child observes, investigates, describes, and discusses earth materials, and their properties and uses. 	K(12)(B) observe and identify the dependence of animals on air, water, food, space, and shelter.	No standard present in the vertical progression	No standard present in the vertical progression

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 B. Life Science C. Earth and Space Science	Kindergarten K(12) The student knows that plants and animals depend on the environment to meet their basic needs for survival. The student is expected to: AND K(13) The student knows that organisms resemble their parents and have structures and undergo processes that help them interact and survive within their environments. The student is expected to:	Grade 1 1(12) The student knows that the environment is composed of relationships between living organisms and nonliving components. The student is expected to: AND 1(13) The student knows that organisms resemble their parents and have structures and undergo processes that help them interact and survive within their environments. The student is expected to:	Grade 2 2(12) The student knows that living organisms have basic needs that must be met through interactions within their environment. The student is expected to: AND 2(13) The student knows that organisms have structures and undergo processes that help them interact and survive within their environments. The student is expected to:
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. PS.1. Experiments with different uses for objects. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. 	 PK4.VI.B.1 Child observes, investigates, describes, and discusses the characteristics of organisms. PK4.VI.B.3 Child observes, investigates, describes, and discusses the relationship of organisms in their environments. PK4.VI.C.1 Child observes, investigates, describes, and discusses earth materials, and their properties and uses. 	No standard present in the vertical progression	 1(12)(A) classify living and nonliving things based upon whether they have basic needs and produce young. 1(12)(B) describe and record examples of interactions and dependence between living and nonliving components in terrariums or aquariums. 	2(12)(A) describe how the physical characteristics of environments, including the amount of rainfall, support plants and animals within an ecosystem.

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 B. Life Science C. Earth and Space Science	Kindergarten K(12) The student knows that plants and animals depend on the environment to meet their basic needs for survival. The student is expected to: AND K(13) The student knows that organisms resemble their parents and have structures and undergo processes that help them interact and survive within their environments. The student is expected to:	Grade 1 1(12) The student knows that the environment is composed of relationships between living organisms and nonliving components. The student is expected to: AND 1(13) The student knows that organisms resemble their parents and have structures and undergo processes that help them interact and survive within their environments. The student is expected to:	Grade 2 2(12) The student knows that living organisms have basic needs that must be met through interactions within their environment. The student is expected to: AND 2(13) The student knows that organisms have structures and undergo processes that help them interact and survive within their environments. The student is expected to:
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. 	 PK4.VI.B.1 Child observes, investigates, describes, and discusses the characteristics of organisms. PK4.VI.B.3 Child observes, investigates, describes, and discusses the relationship of organisms in their environments. 	No standard present in the vertical progression	1(12)(C) identify and illustrate how living organisms depend on each other through food chains.	2(12)(B) create and describe food chains identifying producers and consumers to demonstrate how animals depend on other living things.

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 B. Life Science C. Earth and Space Science	Kindergarten K(12) The student knows that plants and animals depend on the environment to meet their basic needs for survival. The student is expected to: AND K(13) The student knows that organisms resemble their parents and have structures and undergo processes that help them interact and survive within their environments. The student is expected to:	Grade 1 1(12) The student knows that the environment is composed of relationships between living organisms and nonliving components. The student is expected to: AND 1(13) The student knows that organisms resemble their parents and have structures and undergo processes that help them interact and survive within their environments. The student is expected to:	Grade 2 2(12) The student knows that living organisms have basic needs that must be met through interactions within their environment. The student is expected to: AND 2(13) The student knows that organisms have structures and undergo processes that help them interact and survive within their environments. The student is expected to:
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. 	 PK4.VI.B.1 Child observes, investigates, describes, and discusses the characteristics of organisms. PK4.VI.B.2 Child observes, describes, and discusses the life cycles of organisms. PK4.VI.B.3 Child observes, investigates, describes, and discusses the relationship of organisms in their environments. 	K(13)(A) identify the structures of plants, including roots, stems, leaves, flowers, and fruits.	No standard present in the vertical progression	2(13)(A) identify the roots, stems, leaves, flowers, fruits, and seeds of plants and compare how those structures help different plants meet their basic needs for survival.

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 B. Life Science C. Earth and Space Science	Kindergarten K(12) The student knows that plants and animals depend on the environment to meet their basic needs for survival. The student is expected to: AND K(13) The student knows that organisms resemble their parents and have structures and undergo processes that help them interact and survive within their environments. The student is expected to:	Grade 1 1(12) The student knows that the environment is composed of relationships between living organisms and nonliving components. The student is expected to: AND 1(13) The student knows that organisms resemble their parents and have structures and undergo processes that help them interact and survive within their environments. The student is expected to:	Grade 2 2(12) The student knows that living organisms have basic needs that must be met through interactions within their environment. The student is expected to: AND 2(13) The student knows that organisms have structures and undergo processes that help them interact and survive within their environments. The student is expected to:
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. 	 PK4.VI.B.1 Child observes, investigates, describes, and discusses the characteristics of organisms. PK4.VI.B.2 Child observes, describes, and discusses the life cycles of organisms. PK4.VI.B.3 Child observes, investigates, describes, and discusses the relationship of organisms in their environments. 	K(13)(B) identify the different structures that animals have that allow them to interact with their environment such as seeing, hearing, moving, and grasping objects.	1(13)(A) identify the external structures of different animals and compare how those structures help different animals live, move, and meet basic needs for survival.	2(13)(B) record and compare how the structures and behaviors of animals help them find and take in food, water, and air.

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 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. 	 PK4.VI.B.1 Child observes, investigates, describes, and discusses the characteristics of organisms. PK4.VI.B.2 Child observes, describes, and discusses the life cycles of organisms. PK4.VI.B.3 Child observes, investigates, describes, and discusses the relationship of organisms in their environments. 	No standard present in the vertical progression	No standard present in the vertical progression	2(13)(C) record and compare how being part of a group helps animals obtain food, defend themselves, and cope with changes.

Infant, Toddler and Three-	Prekindergarten-PK4	Kindergarten	Grade 1	Grade 2
Year Old	B. Life Science	K(12) The student knows that	1(12) The student knows that	2(12) The student knows that
Exploration and Discovery	C. Earth and Space Science	plants and animals depend	the environment is	living organisms have basic
(ED)		on the environment to meet	composed of relationships	needs that must be met
		their basic needs for survival.	between living organisms	through interactions within
Problem Solving (PS)		The student is expected to:	and nonliving components.	their environment. The
		AND	The student is expected to:	student is expected to:
Memory (ME)		K(13) The student knows that	AND	AND
/ \ /		organisms resemble their	1(13) The student knows that	2(13) The student knows that
~Communication and Speaking		parents and have structures	organisms resemble their	organisms have structures
(CS)		and undergo processes that	parents and have structures	and undergo processes that
		help them interact and	and undergo processes that	help them interact and
		survive within their	neip them interact and	survive within their
		environments. The student is	onvironments. The student is	environments. The student is
		expected to.	environments. The student is	expected to.
ED 1 Pays attention and	BKA VI B 1 Child observes	K(13)(C) identify and record	1(12)(B) record observations	2(12)(C) explain and
exhibits curiosity in people and	investigates describes	the changes from seed	of and describe basic life	demonstrate how some
objects	and discusses the	seedling plant flower and	cycles of animals including a	plants depend on other living
	characteristics of	fruit in a simple plant life	bird, a mammal, and a fish.	things, wind, or water for
ED.2. Uses senses to explore	organisms.	cvcle.		pollination and to move their
people, objects, and the	6	,		' seeds around.
environment.	DK4 M D 2 Child shaamaa			
	PK4.VI.B.2 Child observes,			2(13)(D) investigate Life
	the life gueles of			Cycles and describe some of
ME.1. Shows ability to acquire	organisms			the unique life cycles of
and process new information.	organishis.			animals where young animals
	PK4 VI B 3 Child observes			do not resemble their
ME.3. Recalls and uses	investigates describes			parents, including butterflies
information in new situations.	and discusses the			and frogs.
	relationship of organisms			
CS.1. Uses consistent sounds,	in their environments.			
gestures, or words to				
communicate for a variety of	PK4.VI.C.1 Child observes,			
purposes.	investigates, describes,			
	and discusses earth			
	materials, and their			
	properties and uses.			

Infant, Toddler and Three- Year Old Exploration and Discovery (ED) Problem Solving (PS) Memory (ME) ~Communication and Speaking (CS)	Prekindergarten-PK4 B. Life Science C. Earth and Space Science	Kindergarten K(12) The student knows that plants and animals depend on the environment to meet their basic needs for survival. The student is expected to: AND K(13) The student knows that organisms resemble their parents and have structures and undergo processes that help them interact and survive within their environments. The student is expected to:	Grade 1 1(12) The student knows that the environment is composed of relationships between living organisms and nonliving components. The student is expected to: AND 1(13) The student knows that organisms resemble their parents and have structures and undergo processes that help them interact and survive within their environments. The student is expected to:	Grade 2 2(12) The student knows that living organisms have basic needs that must be met through interactions within their environment. The student is expected to: AND 2(13) The student knows that organisms have structures and undergo processes that help them interact and survive within their environments. The student is expected to:
 ED.1. Pays attention and exhibits curiosity in people and objects. ED.2. Uses senses to explore people, objects, and the environment. ME.1. Shows ability to acquire and process new information. ME.3. Recalls and uses information in new situations. CS.1. Uses consistent sounds, gestures, or words to communicate for a variety of purposes. 	 PK4.VI.B.1 Child observes, investigates, describes, and discusses the characteristics of organisms. PK4.VI.B.2 Child observes, describes, and discusses the life cycles of organisms. 	K(13)(D) identify ways that young plants resemble the parent plant.	1(13)(C) compare ways that young animals resemble their parents.	No standard present in the vertical progression