WBASD Science Resource Document Grade K 2020-2021 Life Science

Standards	Learning Objectives	Student Performance Objectives	Resources/Activities (Optional)	Assessments (Optional)	Terminology
3.1.K.A5	Living things are made up of parts	Students will understand things are	Unit A Lesson 3; Activity Card 8		
	that have specific functions.	classified as living or nonliving based	Unit A Lesson 4; Activity Card 9		plants
		on their chracteristics.	Unit A Lesson 5; Activity Card 10		
3.1.K.C2	Living things have characteristics		Unit A Lesson 7; Activity Card 12		animals
4.1.K.E	that help them survive seasonal	Students will be able to describe			
	changes.	differences between living and nonliving			senses
		things.	Unit B Lesson 2; Activity Card 14		
3.1.K.A3	Both plants and animals go		Unit B Lesson 5; Activity Card 17		seasons
4.4.K.C	through life cycles.	Students will be able to identify both plants	Unit B lesson 6; Activity Card 18		
		and animals as living things.			people
3.1.K.A1	There are similarities and				
4.1.K.A	differences between living and				
	nonliving things.				
4.1.K.D	When living things needs are met,				living
	they grow and thrive.				
					nonliving
21 / 42	Animals have basic needs (food,	Students will be able to identify and list			life avale
3.1.K.A2	•	Students will be able to identify and list basic needs of animals.			life cycle
	water, air, shelter, space)	basic fieeds of affilials.			naronto
3.1.K.B1	Young animals resemble their	Students will recognize that young	District Lesson: Young Animals and Their	District Animal Matching Activity	parents
J.1.K.D1	parents and other animals of the	animals resemble their parents and	Parents	District Aminar Watering Activity	needs
	same kind.	other animals of the same kind.	T di città		neeus
	Same Kina.	other animals of the same kind.	District Lesson: Migration and Hibernation	District Migrate/Hibernate Sort	climate
		Students will recognize various animals'	District Lesson. Wilgration and The Chation	District Wilgrate/Tilberriate Soft	cimiace
		body coverings and how it may help the			
		3.1.1.1.1, 1.1, 1.1, 1.1, 1.1, 1.1, 1.1,	Discovery Education: Animal Features and		adaptation
		animal throughout the seasons.	Their Functions		
				District Animals Assessment	
		Students will be able to describe how		Animal Research Project	
		animals grow and change when their			
		needs are met.			
		Students will be able to describe			
		structures and behaviors of some			
		common animals.			
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Standards	Concepts	Student Performance Objectives	Resources/Activities (Optional)	Assessments (Optional)	Terminology
		Students will be able to classify some animals as wild, farm, zoo, or pet.			migrate hibernate
		Students will be able to recognize and name some common PA animals.			environment
		Students will recognize that animals grow, change, and go through stages			observe
		during a life cycle.			model
3.1.K.A2	Plants have basic needs (food, air water, energy from the sun, space)	Students will be able to identify and list basic needs of plants.	Discovery Education Video: Plant Parts and Their Uses	Dsitrict Plants Assessment	extinct
		Students will be able to observe, describe, and compare similarities and differences in plants such as size and shape.			endangered
		Students will be able to recognize and identify trees, grass, shrubs, and flowers as plants.			
		Students will be able to identify and name the structures of plants (roots, stems, leaves, flowers).			
		Students will be able to sort leaves by at least one attribute.			
		Students will be able to recognize that a plant's seeds are found in its fruit or flowers.			

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Standards	Concepts	Student Performance Objectives	Resources/Activities (Optional)	Assessments (Optional)	Terminology
CC.1.2.K.J	Scientists use new vocabulary and	Students will describe patterns in the			
CC.1.3.K.J	phrases aquired in conversation.	shape, size, color, and/or growth of			
		seeds.			
CC.1.3.K.B	Scientists ask and answer				
CC.1.5.K.B	questions about key details in a	Students will observe changes from			
	text or from information presented	seeds to flowers to fruit.			
	orally or through other media.				
		Students will understand that plants			
CC.1.3.K.F	Scientific investigations involve	need air, water, light, nutrients, and			
	asking and answering questions.	space to live.			
CC.1.3.K.G	Scientists make connections	Students will understand the during its			
	between events or ideas in a text.	life cycle, a flowering plant changes in			
		size, may or may not have branches,			
	Scientists make explanations	and may or may not be able to produce			
	based on observations.	flowers or fruit.			
		Students will observe, measure, and			
		record the growth of seeds.			
		Students will recognize that people use			
		plants and animals to make products			
		such as food and clothing.		Recommended Time Frame:	50-60 days
		Charlente will be an about and			
		Students will know that plants and animals depend on each other.			
		animais depend on each other.			
		Students will name and classify products			
		of plants and animals.			
		Studets will be able to compare the			
		common needs of plants and animals.			

WBASD Science Resource Document Grade K 2020-2021 Physical Science

Standards	Learning Objectives	Student neuformance Objectives	Physical Science	Assessments (Ontional)	Torminalagu
3.2.K.A5	Learning Objectives Everything is made of matter.	Student performance Objectives Students will be able to recognize that	Resources/Activities (Optional)	Assessments (Optional)	Terminology
5.2.K.A5	Everything is made of matter.	matter is present everywhere.	District Matter Unit Lesson 1	District Solid, Liquid, Gas Sort	solid
3.2.K.A1	Objects are identified and	matter is present everywhere.	District Matter Unit Lessons 2-4		Solid
0.2.10.701	classified by observable	Students will be able to recognize matter	District Matter Offic Lessons 2-4		liquid
	properties of matter (solid, liquid,	primarily occurs in 3 forms - solid,	Unit E Lesson 7		qu.u
	gas).	liquid, and gas.			gas
			Discovery Education Video: At First	District Matter Unit Assessment	
3.2.K.A1	There are many types of materials,	Students will explore what happens to	Look: Solids, Liquids, and Gases		matter
	and they can be used in many	substances as they change their state.			
	ways.				observation
3.2.K.A3	Matter can change (heating, melting,	Students will be able to recognize matter			motion
	freezing, mixing)	changes through heating, melting,			
		freezing, and mixing.			force
		Students will be able to use observation			
		Students will be able to use observation, measurement, and communication skills			energy
		to describe change.			magnetism
		to describe change.			magnetism
		Students will be able to compare and			sound
		contrast sets of observations.			
					investigation
		Students will be able to recognize that			
		objects change over time and that changes			fact
		in objects can be measured and observed.			
					hypothesis
		Students will be able to predict and test			
		changes in properties of matter.			inquiry
		Students will be able to understand that			
		water has properties that can be observed			
		and tested.			
		and tested.			
		Students will be able to describe how			
		water moves.			

WBASD Science Resource Document Grade K 2020-2021 Physical Science

Standards	Concepts		Resources/Activities (Optional)	Assessments (Optional)	Terminology
3.2.K.B6 3.2.K.B6	Sunlight, heat, wind, and water are sources of energy. Light from the sun is an important source of energy for both living and nonliving things.	Students will be able to predict and observe the effects of surface tension of water. Students will be able to recognize objects that float. Students will be able to recognize objects that sink. Students will be able to plan and conduct a simple investigation to predict, test, and classify what sinks and what floats.	Resources/Activities (Optional)	Assessments (Optional)	Terminology
3.2.K.B1	Toys and objects can have motion.				
3.2.K.B5	Vibrations of sound can be described.	Students will be able to describe variations of sound.	District Matter Unit - Sound Lesson www.sesamestreet.org Sound Around Town Video Name That Sound Game	District Sound Matching Activity	

WBASD Science Resource Document Grade K 2020-2021 Physical Science

	Physical Science				
Standards	Learning Objectives	Student performance Objectives	Resources/Activities (Optional)	Assessments (Optional)	Terminology
	Scientists conduct investigations				
	to find answers to problems.			Recommended Time Frame:	50-60 days
	There are common types of text.				
	Science text may be different from				
	other types of text.				
CC 1 A V P	Scientists use a combination of				
CC.1.4.R.B	drawing, dictating, and writing				
	to focus on a topic.				
	to locus on a topic.				
CC.1.4.K.O	Scientists describe science related				
	experiences and events.				
	·				
	Scientists ask questions about				
	objects, organisms, and events.				
	If/then statements are used in				
	science to identify the				
	relationship between an action				
	and a reaction.				
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WBASD Science Resource Document Grade K 2020-2021 Earth and Space Science

Standards	Learning Objectives	Student Performance Objectives	Resources/Activities (Optional)	Assessments (Optional)	Terminology
	Seasons and Weather	Seasons and Weather	Seasons and Weather	Seasons and Weather	
3.3.K.A5	Rain, snow, fog, and hail are	Students will be able to recognize changes in	Unit D Lesson 1		season
	different types of precipitation.	weather occur day to day and over seasons			
		affecting earth and its inhabitants.	Unit D Lessons 2-6		precipitation
3.3.K.A5	Scientists collect, describe, and				
	record information about daily	Students will recognize kinds of weather	Unit D Activity Card 28		weather
	weather conditions.	and weather tools.			
3.3.K.A5	Each season in PA has unique	Students will be able to identify seasonal	Unit D Activity Cards 29-32		thermometer
3.3.K.A3	characteristics.	changes throughout the year.	Unit D Activity Card 33		temperature
		- The state of the			temperature
4.1.K.E	Changes in seasons affect living	Students will observe and record weather			evaporation
	things in the local environment.	conditions and data using weathe tools.			
					condensation
3.2.K.B3	Temperature can affect your body.	Students will be able to describe differences			
		in weather using weather terms.			collection
42 // 4	Franks that accounts a scales can be	Students will recognize and know seasons	Dietriet Weter Carle Leasen	District Water Code Cot and Basto	had aren
4.2.K.A	Events that occur in cycles can be recorded and described (water	occur in patterns.	District Water Cycle Lesson	District Water Cycle Cut and Paste	hail;snow
	cycle; seasons)	occur in patterns.			spring
		Students will be able to identify weather		Discovery Education Video - The	Jp8
3.1.K.C3	Climate causes changes to our	that is characteristic of spring, summer,		Language of Science: Earth Space	summer
	local environment.	winter, and fall and tell how it affects		Science K-2 Weather	
		people, plants, and animals.			fall
		Students will be able to predict weather			winter
		based on the season.		Weather Seasons Assessment	
					watercycle
		Students will be able to measure temperature.			
		Students will be able to describe the water			
		cycle.			

WBASD Science Resource Document Grade K 2020-2021 Earth and Space Science

Standards	Learning Objectives	Student Performance Objectives	Resources/Activities	Assessments	Terminology
	Earth, Water, and Agriculture	Earth, Water, and Agriculture	Earth, Water, and Agriculture	Earth, Water, and Agriculture	
3.3.K.A4	Streams, rivers, lakes, and oceans	Students will be able to describe Earth's	Unit C lessons 3-5		
	are bodies of water and sources	air, land, and water.			patterns
	of water.		Unit C Lesson 6; Activity Card 25		
		Students will be able to identify earth			engineering
4.5.K.A	People use resources in their	resources people use everyday.	Unit C Lesson 7; Activity Card 26		
	everyday life which comes from				inquiry
	nature.	Students will describe that water is found			
		in lakes, rivers, streams, and oceans.			observation
4.2.K.B	PA has terrestrial, aquatic, and		District Lessons: What is an Ecosystem?		
	wetland ecosystems; each have	Students will identify materials that	Terrestrial Ecosystems	District Aquatic and Terrestrial	model
	living and nonliving components.	come from earth. Ex. Soil, rocks, water, air.	Aquatic Ecosystems	Animal Sort	
			Wetland Ecosystems		technology
4.3.K.B	It is important to conserve	Students will be able to recognize both		District Aquatic Ecosystem Project	
	natural resources.	natural and human made objects change			system
		over time.		PA Living/Nonliving Sort	
4.5.K.C	There are different types of				tool
	pollution (air, land, water) and	Students will be able to recognize plants			
	sources of pollution (people,	and animals can become endangered when			hypothesis
	factories).	their habitats are polluted or natural	Unit C lesson 8; Activity Card 27		
		resources are used up.			
4.5.K.D	We can reduce, reuse, and recycle				
	to conserve resources.	Students will be able to identify reusing,			
		recycling, reducing, and conservation			
4.3.K.A	We use renewable resources in	as ways to protect Earth's natural resources.			
	our classroom.				
		Students will be able to explain how plants,			
		water, wind, and severe weather can change			
		earth's land.			
	There are common tools and	Charles to will be able to access and identify	Unit D. Loosen 7. Astivity Court 10		
4.4.K.D	There are common tools and	Students will be able to name and identify	Unit B Lesson 7; Activity Card 19		
	machinery used in agriculture.	PA agriculture products and tools and	District Lesson: Plants and Animals on a		
4414	There are common plants as d	machinery commonly used in agriculture.	PA Farm	District Agriculture Sort	
4.4.K.A	There are common plants and		District Form Equipment Joseph	Faure Faurings and Markeline	
4.4.K.B	animals in PA agricultural systems		District Farm Equipment lesson	Farm Equipment Matching	
	(provide basic needs); there are common plants/animals used by		sesamestreet.org - The Garden Song		
			Unit A Lesson 1; Activity Card 6		
	people.				

WBASD Science Resource Document Grade K 2020-2021

Earth and Space Science

Standards	Learning Objectives	Student Performance Objectives	Resources/Activities (Optional)	Assessments (Optional)	Terminology
	Earth, Water, and Agriculture	Earth, Water, and Agriculture	Earth, Water, and Agriculture	Earth, Water, and Agriculture	
4.5.K.B	There are common pests in our everyday lives	Students will be able to explain what a pest is and why it may be a pest.	District Pest Lesson	www.pestworldforkids.org	
		Students will be able to identify some common pests and what we can do about them.			
3.3.K.A1	Three types of earth are rock, soil, and sand.	Students will be able to classify rocks by their properties - color, size, texture.			
		Students will be able to identify and classify properties of soil and substances found in soil.			
3.3.K.B1	The Earth and other planets, sun and other stars, and moon are features of space.	Students will be able to recognize earth is a planet that looks like a sphere from space.	Unit D Lesson 1 District Sun, Moon, and Stars Lesson	District Stars and Moon Assessment	
CC.1.1.K.B	Scientists demonstrate understanding and organization of basic features of print.				
CC.1.4.K.V	Scientists participate in individual or shared research			Recommended Time Frame:	50-60 days
	projects on topics that are of interest.				
	Sometimes scientists must speak audibly and express thoughts and ideas clearly.				