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Pacing Guide				
Content Area: Science				
Cou	urse Title:			Grade Level: P-Cubs/Pandas
	Unit 1: Living Things		M	larking Period 1
	Unit 2: Matter and Energy		M	larking Period 2
	Unit 3: Calendar and Weather		M	larking Period 3
	Unit 4: Inquiry Skills		M	larking Period 4
Created by: Tina DeRose, LouAnn Martinez, Heather Corrado				

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Unit Overview Content Area: Science Unit 1 Title: Living Things Target Course/Grade Level: PreK

Unit Summary

Students will learn about living things and how they survive all around us. Students will be able to observe and predict during investigations. Science practices are integrated into the Cumulative Progress Indicated within each science domain in recognition that science content and processes are inextricably linked; science is a body of knowledge and an evidence-based, model building enterprise that continually extends, refines, and revises knowledge.

Interdisciplinary connections: Language Arts-Common Core Standards for English Language Arts www.corestandards.org/ela-literacy

Math Common Core Standards are aligned and incorporated into the Science Curriculum.

www.corestandards.org/Math

21st century themes: LEARNING AND INNOVATION SKILLS

Creativity and Innovation

Critical Thinking and Problem Solving

Communication and Collaboration

INFORMATION, MEDIA, AND TECHNOLOGY SKILLS

Information Literacy

LIFE AND CAREER SKILLS

Flexibility and Adaptation

Initiative and Self-Direction

Social and Cross-Cultural Skills

Productivity and Accountability

Leadership and Responsibility

www.state.nj.us/education.cccs/standard/9/

Unit Rationale

Students will display curiosity while observing, predicting and investigating materials and objects. Students will use basic science terms during investigations about living things.

Learning Targets		
Preschool #	Preschool Indicator	
5.1.1	Display curiosity about science objects, materials, activities, and longer-term investigations in progress (e.g., ask who, what, when, where, why, and how questions during sensory explorations, experimentation, and focused inquiry).	
5.1.4	Communicate with other children and adults too share observations, pursue questions, make predictions, and/or conclusions.	
5.1.5	Represent observations and work through drawing, recording data, and "writing" (e.g., drawing and "writing" on observation clipboards, making rubbings, charting the growth of plants.	

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5.3.1	Investigate and compare the basic physical characteristics of plants, humans and other animals (e.g., observing and discussing leaves, stems, roots, body parts; observing and drawing different insects; sorting leaves by shape; comparing animals with fur to those with feathers).			
5.3.2	between liv between an	Observe similarities and differences in the needs of living things, and differences between living and nonliving things (e.g., observing and discussing similarities between animal babies and their parents; discussing the differences between a living thing, such as a hermit crab, and a nonliving thing, such as a shell).		
5.3.3	Observe and describe how natural habitats provide for the basic needs of plants and animals with respect to shelter, food, water, air, and light (e.g., digging outside in the soil to investigate the kinds of animal life that live in and around the ground or replicating a natural habitat in a classroom terrarium).			
5.3.4	Observe and record change over time and cycles of change that affect living things (e.g., monitoring the life cycle of a plant, using children's baby photographs to discuss human change and growth, using unit blocks to record the height of classroom plants).			
Unit Essential Questions			Unit Enduring Understandings	
• What are the characteristics of a living thing?		stics of a living thing?	• A living thing needs air, food, and water.	
• What are three living things?		ings?	• Three living things are people, animals, and plants.	
Unit Learnin	ng Targets			
Students will	Students will			
Standard #	-	Learning Standard		
5.1	5.1 Children develop inquiry skills.		ry skills.	

Children observe and investigate living things. Evidence of Learning

Summative Assessment

5.3

Summative assessments should provide overall evidence about student learning. How well have students learned the content knowledge in the unit? What aspects have been internalized? Can students support explanations with knowledge and evidence they acquired during the unit?

Assessments could include projects, summative assessments, lab skills, and demonstrations that verify the knowledge and skills learned.

Formative Assessments

- Student participation
- Whole group instruction/discussion
- Small group instruction/discussion
- Completed projects

- Classroom Observations
- Question and answer
- Completed classwork

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Teacher Resources: www.brainpop.com www.sciencespot.com

www.pbslearningmedia.org

www.Starfall.com

www.Pbskids.com

www.Scholastic.com

www.Abcteach.com

www.Writingwizard.longcountdown.com

www.Abcmouse.com

www.dltk-kids.com

Age appropriate literature

Scholastic books

diagrams

visuals

plants

leaves

Teacher selected materials

The Creative Curriculum for Preschool

Integration of Technology:

Computers/Ipads

Curriculum Development Resources

www.brainpop.com

www.sciencespot.com

www.pbslearningmedia.org

www.Starfall.com

www.Pbskids.com

www.Scholastic.com

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	Unit Overview
Content Area: Science	
Unit 2 Title: Matter and Energy	
Target Course/Grade Level: PreK	

Unit Summary

Students will make predictions of different states of matter. Students will observe the force of energy. Science practices are integrated into the Cumulative Progress Indicated within each science domain in recognition that science content and processes are inextricably linked; science is a body of knowledge and an evidence-based, model building enterprise that continually extends, refines, and revises knowledge.

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www.corestandards.org/Math

21st century themes: LEARNING AND INNOVATION SKILLS

Creativity and Innovation

Critical Thinking and Problem Solving

Communication and Collaboration

INFORMATION, MEDIA, AND TECHNOLOGY SKILLS

Information Literacy

LIFE AND CAREER SKILLS

Flexibility and Adaptation

Initiative and Self-Direction

Social and Cross-Cultural Skills

Productivity and Accountability

Leadership and Responsibility

www.state.nj.us/education.cccs/standard/9/

Unit Rationale

Students will explore changes in solids and liquids when the substances are combined or exposed to different temperatures. Students will investigate how and why things move.

Learning Targets		
Preschool #	Preschool Indicator	
5.1.2	Observe, question, predict, and investigate materials, objects, and phenomena during classroom activities indoors and outdoors and during any longer-term investigations in progress. Seek answers to questions and test predictions using simple experiments or research media (e.g., cracking a nut to look inside; putting a toy car in water to determine whether it sinks).	

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	TT 1		
5.1.3		erms (e.g., observe, predict, experiment) and topic-	
		abulary (e.g., words related to living things [fur, fins,	
		k, trunk, stem]; weather terms [breezy, mild, cloudy,	
		temperature]; vocabulary related to simple machines	
		er, screw, inclined plane]; words for states of matter	
		nes of basic tools [hammer, screwdriver, awl,	
	binoculars, stethoso	1 -	
5.1.4	Communicate with	other children and adults to share observations,	
	pursue questions, n	make predictions, and/or conclusions.	
5.2.1	Observe, manipula	te, sort, and describe objects and materials (e.g.,	
	water, sand, clay, p	aint, glue, various types of blocks, collections of	
	objects, simple hou	sehold items that can be taken apart, or objects made	
		cloth) in the classroom and outdoor environment	
	based on size, shap	be, color, texture, and weight.	
5.2.2	Explore changes in	liquids and solids when substances are combined,	
	heated, or cooled (e.g., mixing sand or clay with various amounts of	
	· ·	elatin; mixing different colors of tempera paint; and	
		gations, such as the freezing and melting of water	
	and other liquids).		
5.2.3	Investigate sound,	heat, and light energy through one or more of the	
		aring the pitch and volume of sounds made by	
	commercially made and homemade instruments, recording how shadows		
	change during the course of a day or over time, using flashlights or		
	lamp light to make	·	
5.2.4	1 0	why things move (e.g., slide block, balance structures, push	
		amps to explore how far and how fast different objects	
	move or roll).		
5.5.1	Identify and use basic tools and technology to extend exploration in		
	conjunction with sc	cience investigations (e.g., writing, drawing, and	
	painting utensils, s	cissors, staplers, magnifiers, balance scales, ramps,	
	pulleys, hammers,	screwdrivers, sieves, tubing, binoculars, whisks,	
	measuring cups, appropriate computer software and website		
	information, video and audio recordings, digital cameras, tape		
	recorders).		
Unit Essential Questio	ons	Unit Enduring Understandings	
• What are some solid	ls that can turn into	• Ice cream, chocolate, ice cubes	
liquids?		• The solids turn into liquid and the liquids turn into	
• What happens when a solid substance is		solids, the result of freezing and melting.	
heated or cooled?		Wheel, pulley, lever, screw, inclined planes	
• What makes things move?		P	
8			
Unit Learning Targets	S		
Students will			

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Standard #	Learning Standard
5.1	Children develop inquiry skills.
5.2	Children observe and investigate matter and energy.
5.5	Children gain experience in using technology.

Evidence of Learning

Summative Assessment

Summative assessments should provide overall evidence about student learning. How well have students learned the content knowledge in the unit? What aspects have been internalized? Can students support explanations with knowledge and evidence they acquired during the unit?

Assessments could include projects, summative assessments, lab skills, and demonstrations that verify the knowledge and skills learned.

Formative Assessments

- Student participation
- Whole group instruction/discussion
- Small group instruction/discussion
- Completed projects

- Classroom Observations
- Question and answer
- Completed classwork

Teacher Resources:

www.brainpop.com

www.sciencespot.com

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www.Pbskids.com

www.Scholastic.com

www.Abcteach.com

www.Writingwizard.longcountdown.com

www.Abcmouse.com

www.dltk-kids.com

wheels

levers

pulleys

screws

solids

liquids

flashlight

Age appropriate literature

Scholastic books

diagrams

visuals

plants

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Teacher selected materials

The Creative Curriculum for Preschool

Integration of Technology:

Computers/Ipads

Curriculum Development Resources

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	Unit Overview	
Co	ontent Area: Science	
Un	nit 3 Title: Calender and Weather	
Ta	arget Course/Grade Level: PreK	

Unit Summary

In this unit the students will learn about different weather conditions and how weather and times of year affects our lives. Science practices are integrated into the Cumulative Progress Indicated within each science domain in recognition that science content and processes are inextricably linked; science is a body of knowledge and an evidence-based, model building enterprise that continually extends, refines, and revises knowledge.

Interdisciplinary connections: Language Arts-Common Core Standards for English Language Arts www.corestandards.org/ela-literacy

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www.corestandards.org/Math

21st century themes: LEARNING AND INNOVATION SKILLS

Creativity and Innovation

Critical Thinking and Problem Solving

Communication and Collaboration

INFORMATION, MEDIA, AND TECHNOLOGY SKILLS

Information Literacy

LIFE AND CAREER SKILLS

Flexibility and Adaptation

Initiative and Self-Direction

Social and Cross-Cultural Skills

Productivity and Accountability

Leadership and Responsibility

www.state.nj.us/education.cccs/standard/9/

Unit Rationale

The students will understand that different months are associated with different types of weather and weather conditions. These different types of weather affect how we go about everyday lives.

Learning Targets		
Preschool #	Preschool Indicator	
5.1.1	Display curiosity about science objects, materials, activities, and longer-term investigations in progress (e.g., ask who, what, when, where, why, and how questions during sensory explorations, experimentation, and focused inquiry).	
5.1.3	Use basic science terms (e.g., observe, predict, experiment) and topic-related science vocabulary (e.g., words related to living things [fur, fins, feathers, beak,	

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	temperature]; vocabulary related to	is [breezy, mild, cloudy, hurricane, shower, o simple machines [wheel, pulley, lever, screw, of matter [solid, liquid]; names of basic tools llars, stethoscope, magnifier]).
5.1.4	Communicate with other children and adults to share observations, pursue questions, make predictions, and/or conclusions.	
5.4.1	Explore and describe characteristics of soil, rocks, water, and air (e.g., sorting rocks by shape and/or color, observing water as a solid and a liquid, noticing the wind's effect on playground objects)	
5.4.3	Observe and record weather (e.g., chart temperatures throughout the seasons or represent levels of wind by waving scarves outdoors).	
5.5.1	Identify and use basic tools and technology to extend exploration in conjunction with science investigations (e.g., writing, drawing, and painting utensils, scissors, staplers, magnifiers, balance scales, ramps, pulleys, hammers, screwdrivers, sieves, tubing, binoculars, whisks, measuring cups, appropriate computer software and website information, video and audio recordings, digital cameras, tape recorders).	
Unit Essentia	Unit Essential Questions Unit Enduring Understandings	

Unit Essential Questions

- What are the months of the year?
- What seasons/weather associated with certain months of the year?

Unit Enduring Understandings

- January-December
- Dec.-Feb. Winter, Mar.-May Spring, June-Aug. Summer, Sept.-Nov. Fall

Unit Learning Targets

Students will.....

Standard #	Learning Standard
5.1	Children develop inquiry skills.
5.4	Children observe and investigate the Earth.
5.5	Children gain experience in using technology.

Evidence of Learning

Summative Assessment

Summative assessments should provide overall evidence about student learning. How well have students learned the content knowledge in the unit? What aspects have been internalized? Can students support explanations with knowledge and evidence they acquired during the unit?

Assessments could include projects, summative assessments, lab skills, and demonstrations that verify the knowledge and skills learned.

Formative Assessments

- Student participation
- Whole group instruction/discussion
- Small group instruction/discussion
- Completed projects

- Classroom Observations
- Question and answer
- Completed classwork

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Teacher Resources:

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www.Starfall.com

www.Pbskids.com

www.Scholastic.com

www.Abcteach.com

www.Writingwizard.longcountdown.com

www.Abcmouse.com

www.dltk-kids.com

Age appropriate literature

Scholastic books

calendar

weather chart

Integration of Technology:

Computers/Ipads

Curriculum Development Resources

www.brainpop.com

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Unit Overview

Content Area: Science

Unit 4 Title: Inquiry Skills/The five senses

Target Course/Grade Level: PreK

Unit Summary

Students first learn scientific knowledge by using their senses to interact with their environment.

Students will also use this knowledge to make sense of the world around them.

Interdisciplinary connections: Language Arts-Common Core Standards for English Language

www.corestandards.org/ela-literacy

Math Common Core State Standards are alaigned and incorporated into the Science Curriculum.

www.corestandards.org/Math

21st century themes:

LEARNING AND INNOVATION SKILLS

Creativity and Innovation

Critical Thinking and Problem Solving

Communication and Collaboration

INFORMATION, MEDIA, AND TECHNOLOGY SKILLS

Information Literacy

LIFE AND CAREER SKILLS

Flexibility and Adaptation

Initiative and Self-Direction

Social and Cross-Cultural Skills

Productivity and Accountability

Leadership and Responsibility

www.state.nj.us/education.cccs/standard/9/

Unit Rationale

Students will use their five senses to formulate their own scientic inquiries. Students will ingage in activities using all their senses.

Learning Targets				
Preschool #	Preschool Indicator			
5.1.1 Display curiosity about science objects, materials, activities, and longer-term investigations in progress (e.g., ask who, what, when, where, why and how que during sensory explorations, experimentation, and focused inquiry).				

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5.1.2	Observe, question, predict, and investigate materials, objects, and phenomena during classroom activities indoors and outdoors and during any longer-term investigations in progress. Seek answers to questions and test predictions using simple experiments or research media (e.g., cracking a nut to look inside; putting a toy car in water to determine whether it sinks).				
5.1.4	Communicate with other children and adults to share observations, pursue questions, make predictions, and/or conclusions				
Unit Essential Questions			Unit Enduring Understandings		
• What are the five senses?			• Touch, taste, smell, sight, hear		
What are some examples of using the five senses?			• Petting a dog, eating an apple, smelling a flower.		
Unit Learning Targets					
Students will					
Standard #		Learning Standard			
5.1 Children develop inquir			ry skills.		

Evidence of Learning

Summative Assessment

Summative assessments should provide overall evidence about student learning. How well have students learned the content knowledge in the unit? What aspects have been internalized? Can students support explanations with knowledge and evidence they acquired during the unit?

Assessments could include projects, summative assessments, lab skills, and demonstrations that verify The knowledge and skills learned.

Formative Assessments

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- Completed classwork

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www.Abcmouse.com

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_					
Ag	ge appropriate literature				
Sc	cholastic books				
Ex	Examples of each of the five senses				
_					
	tegration of Technology:				
Co	omputers/Ipads				
C	urriculum Development Resources				
	ww.brainpop.com				
W	ww.sciencespot.com				
W	ww.pbslearningmedia.org				
W	ww.Starfall.com				
II -	ww.Pbskids.com				
	ww.Scholastic.com				
	ww.Abcteach.com				
	ww.Writingwizard.longcountdown.com				
W	ww.Abcmouse.com				
W	ww.dltk-kids.com				

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ELL Strategies

- Provide explicit, systematic instruction in vocabulary.
- Ensure that ELLs have ample opportunities to talk with both adults and peers and provide ongoing feedback and encouragement.
- Expose ELLs to rich language input.
- Scaffolding for ELLs language learning.
- Encourage continued L1 language development.
- Alphabet knowledge
- Phonological awareness
- Print awareness
- Design instruction that focuses on all of the foundational literacy skills.
- Recognize that many literacy skills can transfer across languages.
- English literacy development by helping ELLs make the connection between what they know in their first language and what they need to know in English.
 - Graphic organizers
 - Modified texts
 - Modified assessments
 - Written/audio instruction
 - Shorter paragraph/essay length
 - Homogeneously grouped by level

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MODIFICATIONS Based on Students' Individual Needs

(Special Education Students, English Language Learners, Students at-Risk)

Time/General	Processing	Comprehension
 Allow extra time Repeat and clarify directions Provide breaks in between tasks Have student verbalize directions Provide timelines/due dates for reports and projects 	 Provide extra response time Have student verbalize steps Repeat directions Provide small group instruction Include partner work 	 Provide reading material on student's level Have student underline important points Assist student on how to use context clues to identify words/phrases Ensure short manageable tasks
Tests/Quizzes/Grading	Behavior/Attention	Organization
 Provide extended time Provide study guides Limit number of responses 	 Establish classroom rules Write a contract with the student specifying expected behaviors Provide preferential seating Re-focus student as needed Reinforce student for staying on task 	 Monitor the student and provide reinforcement of directions Verify the accurateness of homework assignments Display a written agenda

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Enrichment

Accommodate Based on Students Individual Needs: Strategies

- Evaluate vocabulary
- Elevate Text Complexity
- Incorporate inquiry based assignments and projects
- Extend curriculum
- Balance individual, small group and whole group instruction
- Provide tiered/multi-level activities
- Include purposeful learning centers
- Provide open-ended activities and projects
- Offer opportunities for heterogeneous grouping to work with age and social peers as well as homogeneous grouping to provide time to work with individual peers
- Provide pupils with experiences outside the 'regular' curriculum
- Alter the pace the student uses to cover regular curriculum in order to explore topics of interest in greater depth/breadth within their own grade level
- Require a higher quality of work than the norm for the given age group
- Promote higher level of thinking and making connections.
- Focus on process learning skills such as brainstorming, decision making and social skills
- Use supplementary materials in addition to the normal range of resources.
- Encourage peer to peer mentoring
- Integrate cross-curricular lessons
- Incorporate real-world problem solving activities
- Facilitate student-led questioning and discussions

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Career Ready Practices

Standards

CRP1, CRP2, CRP3, CRP4, CRP8, CRP9, CRP10, CRP12

- CRP1. Act as a responsible and contributing citizen and employee. Career-ready individuals understand the obligations and responsibilities of being a member of a community, and they demonstrate this understanding every day through their interactions with others. They are conscientious of the impacts of their decisions on others and the environment around them. They think about the near-term and long-term consequences of their actions and seek to act in ways that contribute to the betterment of their teams, families, community and workplace. They are reliable and consistent in going beyond the minimum expectation and in participating in activities that serve the greater good.
- CRP2. Apply appropriate academic and technical skills. Career-ready individuals readily access and use the knowledge and skills acquired through experience and education to be more productive. They make connections between abstract concepts with real-world applications, and they make correct insights about when it is appropriate to apply the use of an academic skill in a workplace situation
- CRP3. Attend to personal health and financial well-being. Career-ready individuals understand the relationship between personal health, workplace performance and personal well-being; they act on that understanding to regularly practice healthy diet, exercise and mental health activities. Career-ready individuals also take regular action to contribute to their personal financial wellbeing, understanding that personal financial security provides the peace of mind required to contribute more fully to their own career success.
- CRP4. Communicate clearly and effectively and with reason. Career-ready individuals communicate thoughts, ideas, and action plans with clarity, whether using written, verbal, and/or visual methods. They communicate in the workplace with clarity and purpose to make maximum use of their own and others' time. They are excellent writers; they master conventions, word choice, and organization, and use effective tone and presentation skills to articulate ideas. They are skilled at interacting with others; they are active listeners and speak clearly and with purpose. Career-ready individuals think about the audience for their communication and prepare accordingly to ensure the desired outcome.
- CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.
 - Career-ready individuals readily recognize problems in the workplace, understand the nature of the problem, and devise effective plans to solve the problem. They are aware of problems when they occur and take action quickly to address the problem; they thoughtfully investigate the root cause of the problem prior to introducing solutions. They carefully consider the options to solve the problem. Once a solution is agreed upon, they follow through to ensure the problem is solved, whether through their own actions or the actions of others.
- CRP9. Model integrity, ethical leadership and effective management. Career-ready individuals consistently act in ways that align personal and community-held ideals and principles while employing strategies to positively influence others in the workplace. They have a clear understanding of integrity and act on this understanding in

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every decision. They use a variety of means to positively impact the directions and actions of a team or organization, and they apply insights into human behavior to change others' action, attitudes and/or beliefs. They recognize the near-term and long-term effects that management's actions and attitudes can have on productivity, morals and organizational culture.

- CRP10. Plan education and career paths aligned to personal goals. Career-ready individuals take personal ownership of their own education and career goals, and they regularly act on a plan to attain these goals. They understand their own career interests, preferences, goals, and requirements. They have perspective regarding the pathways available to them and the time, effort, experience and other requirements to pursue each, including a path of entrepreneurship. They recognize the value of each step in the education and experiential process, and they recognize that nearly all career paths require ongoing education and experience. They seek counselors, mentors, and other experts to assist in the planning and execution of career and personal goals.
- CRP12. Work productively in teams while using cultural global competence. Career-ready individuals positively contribute to every team, whether formal or informal. They apply an awareness of cultural difference to avoid barriers to productive and positive interaction. They find ways to increase the engagement and contribution of all team members. They plan and facilitate effective team meetings.

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Educational Technology

Standards

8.1.2.A.1, 8.1.2.A.2, 8.1.2.A.3, 8.1.2.A.5, 8.1.2.B.1, 8.1.2.C.1, 8.1.2.D.1, 8.1.2.E.1, 8.1.2.F.1

Technology Operations and Concepts

- Identify the basic features of a computer and explain how to use them effectively.
- Use technology terms in daily practice.
- Discuss the common uses of computer applications and hardware and identify their advantages and disadvantages.
- Create a document with text using a word processing program.

Creativity and Innovation

Illustrate and communicate original ideas and stories using digital tools and media-rich resources.

Communication and Collaboration

• Engage in a variety of developmentally appropriate learning activities with students in other classes, schools, or countries using electronic tools.

• Digital Citizenship

 Model legal and ethical behaviors when using both print and non-print information by citing resources.

Research and Information Literacy

• Use digital tools and online resources to explore a problem or issue affecting children, and discuss possible solutions.

Critical Thinking, Problem Solving, and Decision-Making

• Use mapping tools to plan and choose alternate routes to and from various locations.