Curriculum Management System

PAULSBORO PUBLIC SCHOOLS



Science Grade 3

UPDATED April 2022

For adoption by all regular education programs as specified and for adoption or adaptation by all Special Education Programs in accordance with Board of Education Policy.

Board Approved: ????????

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Paulsboro Public Schools

Superintendent, Dr. Roy Dawson, III

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Paulsboro Public Schools

Mission Statement

The mission of the Paulsboro School District is to work with students, parents, educators, and community to develop excellence in education while preparing each student to be viable and productive citizens in society. Our goal is to develop the unique potential of the whole student by creating a challenging and diverse learning climate that prepares students for the 21st Century and is rich in tradition and pride.

3rd GRADE PACING CHART (2021-2022)

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Торіс	# OF DAYS	*DATES	COMMENTS
Unit 1 Forces Around Us	20	4 weeks	Module 1- Forces and Motion
	15	3 weeks	Module 2- Electricity and Magnetism
Unit 2 – Life Cycles and Traits	10	2 weeks	Module 1- Plants
	10	2 weeks	Module 2- Animals
Unit 3- Different Environments	15	3 weeks	Module 1- Survive the Environment
	15	3 weeks	Module 2- Change the Environment
Unit 4- Observing Weather	15	3 weeks	Module 1- Weather Impacts
*Calendar dates va	ry as subject is ta	ught during varying ma	arking periods on a yearly basis.

Unit 1 Forces Around Us Module 1: Forces and Motion			
NJSLS - Science:	Critical Knowledge and Skills		
• 3-PS2-1 Plan and conduct an investigation to provide evidence of		nequal forces on an object affect the object?	
the effects of balanced and	Students are able to:	Learning Goal(s):	
 unbalanced forces on the motion of an object. 3-PS2-2 Make observations and/or measurements of an object's motion to provide evidence that a pattern can be used to predict 	Determine the effects of balanced and unbalanced forces on the motion of an object.	Demonstrate grade appropriate proficiency by planning and carrying out investigations. Use these practices to demonstrate understanding of the core ideas.	
future motion.	Formative/Summative	Primary & Supplementary Resources	
• 3-5-ETS1-1 Define a simple	Assessments		
 design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost. 3-5-ETS1-2 Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem. Related Interdisciplinary Standards: ELA RI.3.1 Ask and answer questions, and make relevant connections to 	 Formative Identify cause and effect relationships. Plan and conduct investigations collaboratively to produce data to serve as the basis for evidence. Plan and conduct an investigation to provide evidence of the effects of balanced and unbalanced forces on the motion of an object. 	Inspire Science McGraw Hill Copyright 2020 National Science Teaching Association <u>https://www.nsta.org/</u> New Jersey Student Learning Standards 2020 <u>https://www.nj.gov/education/standards/science/Docs/NJSLS-Science_K-5.pdf</u>	
demonstrate understanding of a text, referring explicitly to the text as the basis for the answers. (3-PS2- 1), (3-PS2-3) • RI.3.3 Describe the	 Summative Module online assessment Unit online assessment 		

relationship between a series of		
historical events, scientific ideas or		
concepts, or steps in technical		
procedures in a text, using language		
that pertains to time, sequence, and		
cause/effect. (3-PS2- 3) • RI.3.8		
Describe the logical connection		
between particular sentences and		
paragraphs in a text (e.g.,		
comparison, cause/effect,		
first/second/third in a sequence) to		
support specific points the author		
makes in a text. (3-PS2-3) • W.3.7		
Conduct short research projects		
that build knowledge about a topic.		
(3-PS2-1), (3-PS2-2) • W.3.8		
Recall information from		
experiences or gather information		
from print and digital sources; take		
brief notes on sources and sort		
evidence into provided categories.		
(3-PS2-1), (3-PS2-2) • SL.3.3 Ask		
and answer questions about		
information from a speaker,		
offering appropriate elaboration		
and detail. (3-PS2-3)		
Math		
• MP.2 Reason abstractly and		
quantitatively. (3-PS2-1) • MP.5		
Use appropriate tools strategically.		
(3-PS2-1) • 3.MD.A.2 Measure		
and estimate liquid volumes and		
masses of objects using standard		
units of grams (g), kilograms (kg),		

and liters (l). Add, subtract,		
multiply, or divide to solve one-step		
word problems involving masses or		
volumes that are given in the same		
units, e.g., by using drawings (such		
as a beaker with a measurement		
scale) to represent the problem. (3-		
PS2-1)		
,		
MODIFICATIONS:		
Advanced Learner:		
Interdisciplinary and		
problem-based assignments		
with planned scope and		
sequence		
Emphasize inquiry,		
especially problem-based		
learning		
An emphasis on learning		
the scientific process, using		
experimental design		
procedures		
Students with Disabilities:		
Allow extra time for set up		
and completion of lab work.		
Use a combination of		
written, verbal, and pictorial		
instructions with scaffolding.		
Demonstrate procedures		
and allow students to		
practice.		

 Preferential seating to assure visual access to demonstrations English Language Learners: Reword assignments based on student proficiency levels Introduce key vocabulary before lesson Provide appropriate leveled reading materials Varied texts and supplementary materials, including visuals Use audio and visual supports 		
	UNIT 1 Forces A Module 2: Electricity a	
NJSLS - Science:		Critical Knowledge and Skills
• 3-PS2-3 Ask questions to		understandings about magnets to solve problems?
determine cause and effect	-	
relationships of electric or magnetic	Students are able to:	Learning Goal(s):
 interactions between two objects not in contact with each other. 3-PS2-4 Define a simple design problem that can be solved by applying scientific ideas about magnets 3-5-ETS1-1 Define a simple design problem reflecting a need or a want that includes specified 	Determine the effects of balanced and unbalanced forces on the motion of an object and the cause and effect relationships of electrical or magnetic interactions to define a simple design problem that can be solved with magnets.	Demonstrate grade appropriate proficiency in asking questions and defining problems. Use these practices to demonstrate understanding of the core ideas.

criteria for success and constraints		
on materials, time, or cost.	Formative/Summative	Primary & Supplementary Resources
• 3-5-ETS1-2 Generate and	Assessments	
 compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem. Related Interdisciplinary Standards: ELA RI.3.1 Ask and answer questions, 	 Formative Identify and test cause and effect relationships in order to explain change. Ask questions that can be investigated based on patterns. 	Inspire Science McGraw Hill Copyright 2020 National Science Teaching Association <u>https://www.nsta.org/</u> New Jersey Student Learning Standards 2020 <u>https://www.nj.gov/education/standards/science/Docs/NJSLS-</u>
• KI.3.1 Ask and answer questions, and make relevant connections to demonstrate understanding of a text, referring explicitly to the text as the basis for the answers. (3-PS2- 1), (3-PS2-3) • RI.3.3 Describe the relationship between a series of historical events, scientific ideas or concepts, or steps in technical procedures in a text, using language that pertains to time, sequence, and cause/effect. (3-PS2- 3) • RI.3.8 Describe the logical connection between particular sentences and paragraphs in a text (e.g., comparison, cause/effect, first/second/third in a sequence) to support specific points the author makes in a text. (3-PS2-3) • W.3.7 Conduct short research projects that build knowledge about a topic. (3-PS2-1), (3-PS2-2) • W.3.8 Recall information from	 Magnetic forces could include: the forces between two permanent magnets, the forces between an electromagnet and steel paperclips, the forces exerted by one magnet versus the force exerted by two magnets. Summative Module online assessment Unit online assessment 	Science_K-5.pdf

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experiences or gather information		
from print and digital sources; take		
brief notes on sources and sort		
evidence into provided categories.		
(3-PS2-1), (3-PS2-2) • SL.3.3 Ask		
and answer questions about		
information from a speaker,		
offering appropriate elaboration		
and detail. (3-PS2-3)		
Math		
MP.2 Reason abstractly and		
quantitatively. (3-PS2-1) • MP.5		
Use appropriate tools strategically.		
(3-PS2-1) • 3.MD.A.2 Measure		
and estimate liquid volumes and		
masses of objects using standard		
units of grams (g), kilograms (kg),		
and liters (l). Add, subtract,		
multiply, or divide to solve one-step		
word problems involving masses or		
volumes that are given in the same		
units, e.g., by using drawings (such		
as a beaker with a measurement		
scale) to represent the problem. (3-		
PS2-1)		
MODIFICATIONS:		
Advanced Learner:		
Interdisciplinary and		
problem-based assignments		
with planned scope and		
sequence		

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Emphasize inquiry,			
especially problem-based			
learning			
An emphasis on learning			
the scientific process, using			
experimental design			
procedures			
Students with Disabilities:			
• Allow extra time for set up			
and completion of lab work.			
• Use a combination of			
written, verbal, and pictorial			
instructions with scaffolding.			
Demonstrate procedures			
and allow students to			
practice.			
 Preferential seating to 			
assure visual access to			
demonstrations			
English Language Learners:			
Reword assignments based			
• Reword assignments based on student proficiency			
levels			
Introduce key vocabulary before lesson			
Provide appropriate leveled			
reading materials			
Varied texts and			
supplementary materials,			
including visuals			
Use audio and visual			
supports			

UNIT 2 Life Cycles and Traits Module 1: Plants			
NJSLS - Science:		Critical Knowledge and Skills	
• 3-LS1-1 Develop models to	Concept(s): Do all living things ha		
describe that organisms have			
unique and diverse life cycles, but	Students are able to:	Learning Goal(s):	
 all have in common birth, growth, reproduction, and death. 3-LS3-1 Analyze and interpret data to provide evidence that plants and animals have traits inherited from parents and that variation of these traits exists in a group of similar organisms. 3-LS4-2 Use evidence to construct 	Develop an understanding that reproduction is essential to the continued existence of any kind of organism. Plants and animals have unique and diverse life cycles.	Demonstrate grade appropriate proficiency in developing and using models and constructing explanations and designing solutions. Use these practices to demonstrate understanding of the core ideas.	
an explanation for how the	Formative/Summative	Primary & Supplementary Resources	
variations in characteristics among	Assessments	Timary & Supplementary Resources	
individuals of the same species may	Formative		
provide advantages in surviving,	Make predictions using	Inspire Science	
finding mates, and reproducing.	patterns of change.	McGraw Hill Copyright 2020	
 Related Interdisciplinary Standards: ELA RI.3.1 Ask and answer questions to demonstrate understanding of a text, referring explicitly to the text as the basis for the answers. (3-LS4-1), (3-LS4-2), (3-LS4-3), (3-LS4-4) RI.3.2 Determine the main idea of a text; recount the key details and explain how they support the main idea. (3-LS4-1), (3-LS4-2), (3-LS4-3), (3-LS4-3), (3-LS4-4) 	 Develop models to describe phenomena. Develop models to describe that organisms have unique and diverse life cycles but all have in common birth, growth, reproduction, and death. 	National Science Teaching Association https://www.nsta.org/ New Jersey Student Learning Standards 2020 https://www.nj.gov/education/standards/science/Docs/NJSLS- Science_K-5.pdf	

Describe the relationship between a	Module online	
series of historical events, scientific	assessment	
ideas or concepts, or steps in	• Unit online assessment	
technical procedures in a text, using		
language that pertains to time,		
sequence, and cause/effect. (3-LS4-		
1), (3-LS4-2), (3-LS4-3), (3-LS4-4)		
• W.3.1 Write opinion pieces on		
topics or texts, supporting a point		
of view with reasons. (3-LS4-1), (3-		
LS4-3), (3-LS4-4) • W.3.2 Write		
informative/explanatory texts to		
examine a topic and convey ideas		
and information clearly. (3- LS4-1),		
(3-LS4-2), (3-LS4-3), (3-LS4-4) •		
W.3.8 Recall information from		
experiences or gather information		
from print and digital sources; take		
brief notes on sources and sort		
evidence into provided categories.		
(3-LS4-1) • SL.3.4 Report on a		
topic or text, tell a story, or recount		
an experience with appropriate		
facts and relevant, descriptive		
details, speaking clearly at an		
understandable pace. (3-LS4-2), (3-		
LS4-3), (3-LS4-4)		
Math		
• MP.2 Reason abstractly and		
quantitatively. (3-LS4-1), (3-LS4-2),		
(3-LS4-3), (3-LS4-4) • MP.4 Model		
with mathematics. (3-LS4-1), (3-		
LS4-2), (3-LS4-3), (3-LS4-4) •		
MP.5 Use appropriate tools		

	r	
strategically. (3-LS4-1) • 3.MD.B.3		
Draw a scaled picture graph and a		
scaled bar graph to represent a data		
set with several categories. Solve		
one- and two-step "how many		
more" and "how many less"		
problems using information		
presented in scaled bar graphs. (3-		
LS4-2), (3-LS4-3) • 3.MD.B.4		
Generate measurement data by		
measuring lengths using rulers		
marked with halves and fourths of		
an inch. Show the data by making a		
line plot, where the horizontal scale		
is marked off in appropriate units—		
whole numbers, halves, or quarters.		
(3-LS4-1)		
MODIFICATIONS:		
Advanced Learner:		
 Interdisciplinary and 		
problem-based assignments		
with planned scope and		
sequence		
• Emphasize inquiry,		
especially problem-based		
learning		
An emphasis on learning		
the scientific process, using		
experimental design		
procedures		
Students with Disabilities:		

 Allow extra time for set up and completion of lab work. Use a combination of written, verbal, and pictorial instructions with scaffolding. Demonstrate procedures and allow students to practice. Preferential seating to assure visual access to demonstrations English Language Learners: Reword assignments based on student proficiency levels Introduce key vocabulary before lesson Provide appropriate leveled reading materials Varied texts and supplementary materials, including visuals Use audio and visual supports 		
UNIT 2 Life Cycles and Traits Module 2: Animals		
NJSLS - Science: • 3-LS1-1 Develop models to describe that organisms have unique and diverse life cycles, but all have in	Critical Knowledge and Skills Concept(s): What kind of traits are passed on from parent to offspring? What environmental factors might influence the traits of a specific organism?	

Students are able to:	Learning Goal(s):
Understand that organisms have different inherited traits and that the environment can also affect the traits that an organism develops.	Demonstrate grade appropriate proficiency in analyzing and interpreting data, constructing explanations, and designing solutions. Use these practices to demonstrate understanding of the core ideas.
Formative/Summative	Primary & Supplementary Resources
Assessments	
 Formative Analyze and interpret data to provide evidence that plants and animals have traits inherited from parents and that variation of these traits exists in a group of similar organisms. Use evidence to support the explanation that traits can be influenced by the environment. Example of environment's effect on traits could include: a pet dog that is given excess food and little exercise may develop obesity. 	Inspire Science McGraw Hill Copyright 2020 National Science Teaching Association <u>https://www.nsta.org/</u> New Jersey Student Learning Standards 2020 <u>https://www.nj.gov/education/standards/science/Docs/NJSLS-Science_K-5.pdf</u>
	Understand that organisms have different inherited traits and that the environment can also affect the traits that an organism develops. Formative/Summative Assessments Formative • Analyze and interpret data to provide evidence that plants and animals have traits inherited from parents and that variation of these traits exists in a group of similar organisms. • Use evidence to support the explanation that traits can be influenced by the environment. Example of environment's effect on traits could include: a pet dog that is given excess food and little exercise may develop

1) $(9 I C A 0) (9 I C A 9) (9 I C A A)$		
1), (3-LS4-2), (3-LS4-3), (3-LS4-4)	Module online	
• W.3.1 Write opinion pieces on	assessment	
topics or texts, supporting a point	• Unit online assessment	
of view with reasons. (3-LS4-1), (3-		
LS4-3), (3-LS4-4) • W.3.2 Write		
informative/explanatory texts to		
examine a topic and convey ideas		
and information clearly. (3- LS4-1),		
(3-LS4-2), (3-LS4-3), (3-LS4-4) •		
W.3.8 Recall information from		
experiences or gather information		
from print and digital sources; take		
brief notes on sources and sort		
evidence into provided categories.		
(3-LS4-1) • SL.3.4 Report on a		
topic or text, tell a story, or recount		
an experience with appropriate		
facts and relevant, descriptive		
details, speaking clearly at an		
understandable pace. (3-LS4-2), (3-		
LS4-3), (3-LS4-4)		
Math		
• MP.2 Reason abstractly and		
quantitatively. (3-LS4-1), (3-LS4-2),		
(3-LS4-3), (3-LS4-4) • MP.4 Model		
with mathematics. (3-LS4-1), (3-		
LS4-2), (3-LS4-3), (3-LS4-4) •		
MP.5 Use appropriate tools		
strategically. (3-LS4-1) • 3.MD.B.3		
Draw a scaled picture graph and a		
scaled bar graph to represent a data		
set with several categories. Solve		
one- and two-step "how many		
more" and "how many less"		

problems using information	· · · · · · · · · · · · · · · · · · ·	
presented in scaled bar graphs. (3-		
LS4-2), (3-LS4-3) • 3.MD.B.4		
Generate measurement data by		
measuring lengths using rulers		
marked with halves and fourths of		
an inch. Show the data by making a		
line plot, where the horizontal scale		
is marked off in appropriate units—		
whole numbers, halves, or quarters.		
(3-LS4-1)		
MODIFICATIONS:		
Advanced Learner:		
Interdisciplinary and		
problem-based assignments		
with planned scope and		
sequence		
• Emphasize inquiry,		
especially problem-based		
learning		
An emphasis on learning		
the scientific process, using		
experimental design		
procedures		
Students with Disabilities:		
• Allow extra time for set up		
and completion of lab work.		
• Use a combination of		
written, verbal, and pictorial		
instructions with scaffolding.		

 Demonstrate procedures and allow students to practice. Preferential seating to assure visual access to demonstrations English Language Learners: Reword assignments based on student proficiency levels Introduce key vocabulary before lesson Provide appropriate leveled reading materials Varied texts and supplementary materials, including visuals 		
Use audio and visual supports		
	UNIT 3 Different F	Invironments
	Module 1: Survive the	
NJSLS - Science: 3-LS3-2 Use evidence to support the explanation that traits can be influenced by the environment.	Concept(s): Why don't we see all	Critical Knowledge and Skills igators in the arctic?
3-LS4-3 Construct an argument with evidence that in a particular habitat	Students are able to:	Learning Goal(s):
some organisms can survive well, some survive less well, and some cannot survive at all.	Understand that when the environment changes, some organisms survive and reproduce, some move to new	Demonstrate grade appropriate proficiency in engaging in argument from evidence.

 3-5-ETS1-3 Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved. Related Interdisciplinary Standards: ELA 	locations, some move into the transformed environment, and some die.	Use this practice to demonstrate understanding of the core ideas.
• RI.3.1 Ask and answer questions to demonstrate understanding of a text, referring explicitly to the text as the basis for the answers. (3-LS4-1), (3- LS4-2), (3-LS4-3), (3-LS4-4) • RI.3.2 Determine the main idea of a text; recount the key details and explain here the man idea main idea (2)		
how they support the main idea. (3- I S4-1) (3-I S4-2) (3-I S4-3) (3-I S4-4)	Formative/Summative Assessments	Primary & Supplementary Resources
 LS4-1), (3-LS4-2), (3-LS4-3), (3-LS4-4) RI.3.3 Describe the relationship between a series of historical events, scientific ideas or concepts, or steps in technical procedures in a text, using language that pertains to time, sequence, and cause/effect. (3-LS4-1), (3-LS4-2), (3-LS4-3), (3-LS4-4) W.3.1 Write opinion pieces on topics or texts, supporting a point of view with reasons. (3-LS4-1), (3-LS4-3), (3- LS4-4) W.3.2 Write informative/explanatory texts to examine a topic and convey ideas and information clearly. (3-LS4-1), (3-LS4- 2), (3-LS4-3), (3-LS4-4) 	 Formative Identify cause and effect relationships in order to explain change. Construct an argument with evidence. Construct an argument with evidence that in a particular habitat, some organisms can survive well, some can survive less well, and some cannot survive at all. 	Inspire Science McGraw Hill Copyright 2020 National Science Teaching Association <u>https://www.nsta.org/</u> New Jersey Student Learning Standards 2020 <u>https://www.nj.gov/education/standards/science/Docs/NJSLS-Science_K-5.pdf</u>
Recall information from experiences or gather information from print and digital sources; take brief notes on sources and sort evidence into provided categories. (3-LS4-1) •	Summative Module online assessment Unit online assessment 	

SL.3.4 Report on a topic or text, tell a	
story, or recount an experience with	
appropriate facts and relevant,	
descriptive details, speaking clearly at	
an understandable pace. (3-LS4-2), (3-	
LS4-3), (3-LS4-4)	
Math	
• MP.2 Reason abstractly and	
quantitatively. (3-LS4-1), (3-LS4-2), (3-	
LS4-3), (3-LS4-4) • MP.4 Model with	
mathematics. (3-LS4-1), (3-LS4-2), (3-	
LS4-3), (3-LS4-4) • MP.5 Use	
appropriate tools strategically. (3-LS4-	
1) • 3.MD.B.3 Draw a scaled picture	
graph and a scaled bar graph to	
represent a data set with several	
categories. Solve one- and two-step	
"how many more" and "how many	
less" problems using information	
presented in scaled bar graphs. (3-LS4-	
2), (3-LS4-3) • 3.MD.B.4 Generate	
measurement data by measuring	
lengths using rulers marked with halves	
and fourths of an inch. Show the data	
by making a line plot, where the	
horizontal scale is marked off in	
appropriate units—whole numbers,	
halves, or quarters. (3-LS4-1)	
MODIFICATIONS:	
Advanced Learner:	
 Interdisciplinary and 	
problem-based assignments	
with planned scope and	
sequence	
sequence	

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Emphasize inquiry,			
especially problem-based			
learning			
An emphasis on learning			
the scientific process, using			
experimental design			
procedures			
Students with Disabilities:			
• Allow extra time for set up			
and completion of lab work.			
• Use a combination of			
written, verbal, and pictorial			
instructions with scaffolding.			
Demonstrate procedures			
and allow students to			
practice.			
 Preferential seating to 			
assure visual access to			
demonstrations			
English Language Learners:			
Reword assignments based			
• Reword assignments based on student proficiency			
levels			
Introduce key vocabulary before lesson			
Provide appropriate leveled			
reading materials			
Varied texts and			
supplementary materials,			
including visuals			
Use audio and visual			
supports			

	UNIT 3 Different F	Invironments
	Module 2: Change the	e Environment
NJSLS - Science:		Critical Knowledge and Skills
• 3-LS4-1 Analyze and interpret data	Concept(s): What do fossils tell u	s about the organisms and the environment in which they
from fossils to provide evidence of the	lived?	
organisms and the environments in		
which they lived long ago.	Students are able to:	Learning Goal(s):
• 3-LS4-3 Construct an argument with		
evidence that in a particular habitat some organisms can survive well, some	Develop an understanding of	Demonstrate grade appropriate proficiency in asking
survive less well, and some cannot	the types of organisms that lived	questions and defining problems, analyzing and interpreting
survive less well, and some cannot survive at all.	long ago and the nature of their	data, and engaging in argument from evidence.
• 3-LS4-4 Make a claim about the	environments.	
merit of a solution to a problem		Use this practice to demonstrate understanding of the core
caused when the environment changes	Develop an understanding of	ideas.
and the types of plants and animals	the concept that when an	
that live there may change.	environment changes, some	
• 3-5-ETS1-1 Define a simple design	organisms survive and	
problem reflecting a need or a want	reproduce, some move to new	
that includes specified criteria for success and constraints on materials,	locations, some move into	
time, or cost.	different environments, and	
	some die.	
Related Interdisciplinary Standards:		
ELA		
• RI.3.1 Ask and answer questions to	Formative/Summative Assessments	Primary & Supplementary Resources
demonstrate understanding of a text,	Formative	Inspire Science
referring explicitly to the text as the $(2 + 54)$	Analyze and interpret	McGraw Hill Copyright 2020
basis for the answers. $(3-LS4-1)$, $(3-LS4-2)$, $(2+LS4-2)$, $(2+LS4-2)$, $(2+LS4-4)$, $(2+LS4$	data to make sense of	
LS4-2), (3-LS4-3), (3-LS4-4) • RI.3.2 Determine the main idea of a text;	phenomena using logical	National Science Teaching Association
recount the key details and explain	reasoning.	https://www.nsta.org/
how they support the main idea. (3-	• Make a claim about the	
LS4-1), (3-LS4-2), (3-LS4-3), (3-LS4-4)	merit of a solution to a	New Jersey Student Learning Standards 2020
• RI.3.3 Describe the relationship	problem by citing	

between a series of historical events,	relevant evidence about	https://www.nj.gov/education/standards/science/Docs/NJSLS-
scientific ideas or concepts, or steps in	how it meets the criteria	Science_K-5.pdf
technical procedures in a text, using		<u>Science_K-3.pdi</u>
language that pertains to time,	and constraints of a	
sequence, and cause/effect. (3-LS4- 1),	problem.	
(3-LS4-2), (3-LS4-3), (3-LS4-4) •	Define a simple design	
W.3.1 Write opinion pieces on topics	problem reflecting a	
or texts, supporting a point of view	need or want that	
with reasons. (3-LS4-1), (3-LS4-3), (3-	included specified	
LS4-4) • W.3.2 Write	criteria for success and	
informative/explanatory texts to	constraints on materials,	
examine a topic and convey ideas and		
information clearly. (3- LS4-1), (3-LS4-	time, or cost.	
2), $(3-LS4-3)$, $(3-LS4-4) \bullet W.3.8$	a .	
Recall information from experiences	Summative	
or gather information from print and	Module online	
digital sources; take brief notes on	assessment	
sources and sort evidence into	• Unit online assessment	
provided categories. (3-LS4-1) •		
SL.3.4 Report on a topic or text, tell a		
story, or recount an experience with		
appropriate facts and relevant,		
descriptive details, speaking clearly at		
an understandable pace. (3-LS4-2), (3-		
LS4-3), (3-LS4-4)		
Math		
• MP.2 Reason abstractly and		
quantitatively. (3-LS4-1), (3-LS4-2), (3-		
LS4-3), (3-LS4-4) • MP.4 Model with		
mathematics. (3-LS4-1), (3-LS4-2), (3-		
LS4-3), (3-LS4-4) • MP.5 Use		
appropriate tools strategically. (3-LS4-		
1) • 3.MD.B.3 Draw a scaled picture		
graph and a scaled bar graph to		
represent a data set with several		
categories. Solve one- and two-step		
"how many more" and "how many		

less" problems using information presented in scaled bar graphs. (3-LS4-2), (3-LS4-3) • 3.MD.B.4 Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch. Show the data by making a line plot, where the horizontal scale is marked off in appropriate units-whole numbers, halves, or quarters. (3-LS4-1) **MODIFICATIONS:** Advanced Learner: • Interdisciplinary and problem-based assignments with planned scope and sequence • Emphasize inquiry, especially problem-based learning • An emphasis on learning the scientific process, using experimental design procedures Students with Disabilities: • Allow extra time for set up and completion of lab work. • Use a combination of written, verbal, and pictorial instructions with scaffolding. Demonstrate procedures

•

and allow students to

practice.

 Preferential seating to assure visual access to demonstrations English Language Learners: Reword assignments based on student proficiency levels Introduce key vocabulary before lesson Provide appropriate leveled reading materials Varied texts and supplementary materials, including visuals Use audio and visual supports 		
	UNIT 4 Observin	
	Module 1: Weath	
NJSLS - Science: • 3-ESS2-1 Represent data in tables		Critical Knowledge and Skills
and graphical displays to describe typical weather conditions expected	Concept(s): What is the typical we How can we protect people from	
during a particular season.3-ESS2-2 Obtain and combine	Students are able to:	Learning Goal(s):
 information to describe climates in different regions of the world. 3-ESS3-1 Make a claim about the merit of a design solution that reduces the impacts of climate change and/or a weather-related hazard. 3-5-ETS1-1 Define a simple design problem reflecting a need or a want 	Organize and use data to describe typical weather conditions expected during a given season. Make claim about the merit of a design solution that reduces the	Demonstrate grade appropriate proficiency in asking questions and defining problems, analyzing and interpreting data, engaging in argument from evidence, and obtaining, evaluating, and communicating information. Use these practices to demonstrate understanding of the core ideas.

that includes specified criteria for success and constraints on materials, time, or cost. • 3-5-ETS1-2 Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.	impact of weather related hazards.	
 Related Interdisciplinary Standards: ELA RI.3.1 Ask and answer questions to demonstrate understanding of a text, referring explicitly to the text as the 		
 Ferenning explicitly to the text as the basis for the answers. (3-ESS3-1) W.3.7 Conduct short research projects that build knowledge about a topic. (3-ESS3-1) Math MP.2 Reason abstractly and quantitatively. (3-ESS3-1) MODIFICATIONS: Advanced Learner: Interdisciplinary and problem-based assignments with planned scope and sequence Emphasize inquiry, especially problem-based learning An emphasis on learning the scientific process, using experimental design 	 Formative/Summative Assessments Formative Make predictions using patterns of change. Represent data in tables or bar graphs to reveal patterns that indicate relationships. Obtain and combine information from books or other media to explain phenomena. Identify and test cause and effect relationships to explain change. Summative Module online assessment Unit online assessment 	Primary & Supplementary Resources Inspire Science McGraw Hill Copyright 2020 National Science Teaching Association https://www.nsta.org/ New Jersey Student Learning Standards 2020 https://www.nj.gov/education/standards/science/Docs/NJSLS-Science_K-5.pdf

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