#### **GRADE 5– Unit 1: Matter & Its Interactions**

#### Mission Statement

The primary goal of the Swedesboro-Woolwich School District is to prepare each student with the real life skills needed to compete in a highly competitive global economy. This will be achieved by providing a comprehensive curriculum, the integration of technology, and the professional services of a competent and dedicated faculty, administration, and support staff.

Guiding this mission will be Federal mandates, including No Child Left Behind, the New Jersey Core Curriculum Content Standards, and local initiatives addressing the individual needs of our students as determined by the Board of Education. The diverse resources of the school district, which includes a caring PTO and active adult community, contribute to a quality school system. They serve an integral role in supporting positive learning experiences that motivate, challenge and inspire children to learn.

# **Unit/Module Overview**

In this unit, students investigate the properties of matter by dissolving everyday chemicals to make solutions and by exploring simple yet surprising chemical reactions. Through these investigations, students begin to build conceptual models for the particulate nature of matter.

# **Standards Covered in Current Unit/Module**

## **Related Standards and Learning Goals**

<u>5-PS1-1</u>: Develop a model to describe that matter is made of particles too small to be seen.

<u>5-PS1-2</u>: Measure and graph quantities to provide evidence that regardless of the type of change that occurs when heating, cooling, or mixing substances, the total weight of matter is conserved.

**5-PS1-3**: Make observations and measurements to identify materials based on their properties.

<u>5-PS1-4</u>: Conduct an investigation to determine whether the mixing of two or more substances results in new substances.

<u>3-5-ETS1-3</u>: 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.

I can demonstrate an understanding of the Scientific Method & Engineering Design Process.

I can measure and graph quantities to provide evidence that regardless of the type of change, the total weight of matter is conserved.

I can develop a model to describe that matter is made of particles too small to be seen.

I can make observations and measurements to identify materials based on their properties.

I can conduct an investigation to determine whether the mixing of two or more substances results in new substances.

Unit/Module Weekly Learning Activities and Pacing Guide				
Topic & # Days	NJ Standards Critical Knowledge & Skills Possible Resources & Activities			
Week 1:	3-5 ETS 1-2.6.1, 3-5 ETS1-2,	Obj. We are learning to:	<u>Curriculum</u> : Mystery Science	
Science and	and ETS1.B.2	<ul> <li>Students will demonstrate an understanding</li> </ul>	1. Use the Promethean to display Google	
Engineering		of the Scientific Method & Engineering	Slides to review the Scientific Method &	
Practice		Design Process.	Engineering Design Process	
Slideshow	Suggested Formative Assessment(s): <a href="https://docs.google.com/presentation/d/1rOT">https://docs.google.com/presentation/d/1rOT</a>			

Mystery Science Assessment for each lesson	KmO7Jf18Pp Gl xhrCtizodLggj8pk4ylLtsqTwo/
	edit?usp=sharing
	2. Review and discuss the slides together as a
	class.
	Material:
	Mystery Science Lab Sheets & Assessments
	Readworks readings
	Student Readers (English & Spanish Carolina
	Science Kits)
	generationgenius.com
	Atom's Family Packet (Google Drive)
	Periodic Table of Elements
	chrome-extension://bpmcpldpdmajfigpchkicef
	oigmkfalc/views/app.html (powerpoint)
	http://sciencespot.net/Media/atomsfam.pdf
	(worksheets)
	Teachers Pay Teachers:
	Supplemental Mystery Science papers
	https://www.teacherspayteachers.com/Produc
	t/Molecule-Learning-Stations-Intro-to-Modelin
	g-Molecules-with-QR-code-fun-850361
	https://www.teacherspayteachers.com/Produc
	t/NGSS-Matter-and-Its-Interactions-Bundle-24
	1935 (Separating Mixtures Lab, Oil Spills Lab,
	Apples and Oranges Lab, Talk about Dense
	Lab,)
	https://www.teacherspayteachers.com/Produc
	t/NGSS-Aligned-Chemical-Reactions-Lab-5-PS1
	-4-and-MS-PS1-2-2314975
	Lego Atom Building Activity:
	http://periodictable.com/;
	https://ed.ted.com/lessons/the-genius-of-men
	deleev-s-periodic-table-lou-serico

			Readworks article: Talk about Dense
			Better Lessons Online Plans & Activities
Week 2:	5-PS1-1	Obj. We are learning to:	<u>Curriculum</u> : Mystery Science
Lesson 1:	5-PS1-2	I can measure and graph quantities to	Day 1: Introduction Video & Discussion
Are Magic		provide evidence that regardless of the type	Day 2: Lab & Lab Paper
Potions		of change, the total weight of matter is	Day 3 & 4: End of Video, Discussion & Teacher
real?		conserved.	pay teacher worksheet to go along with lesson
		Suggested Formative Assessment(s):	Day 5: Test
		Mystery Science Assessment for each lesson	Material:
			Test:
			https://docs.google.com/presentation/d/1tVN
			VK-R8qL7AsqhJ2CZWhc01UmieuJ4w3oaJsG5rd
			rw/edit?usp=sharing
			Key:
			https://docs.google.com/presentation/d/1nT7
			uBgD0uEfOuLy1v3U4V3PRLv91gDurYRPdynaU
			mws/edit?usp=sharing
			Mystery Science Lab Sheets & Assessments
			Readworks readings
			Student Readers (English & Spanish Carolina
			Science Kits)
			generationgenius.com
			Atom's Family Packet (Google Drive)
			Periodic Table of Elements
			chrome-extension://bpmcpldpdmajfigpchkicef
			oigmkfalc/views/app.html (powerpoint)
			http://sciencespot.net/Media/atomsfam.pdf
			(worksheets)
			Teachers Pay Teachers:
			Supplemental Mystery Science papers
			https://www.teacherspayteachers.com/Produc
			t/Molecule-Learning-Stations-Intro-to-Modelin
			g-Molecules-with-QR-code-fun-850361

Weeks 3: Lesson 2: Could you transform something	5-PS1-1 5-PS1-2	Obj. We are learning to:  I can develop a model to describe that matter is made of particles too small to be seen.  Suggested Formative Assessment(s):	https://www.teacherspayteachers.com/Produc t/NGSS-Matter-and-Its-Interactions-Bundle-24 1935 (Separating Mixtures Lab, Oil Spills Lab, Apples and Oranges Lab, Talk about Dense Lab,) https://www.teacherspayteachers.com/Produc t/NGSS-Aligned-Chemical-Reactions-Lab-5-PS1 -4-and-MS-PS1-2-2314975 Lego Atom Building Activity: http://periodictable.com/; https://ed.ted.com/lessons/the-genius-of-men deleev-s-periodic-table-lou-serico Readworks article: Talk about Dense Better Lessons Online Plans & Activities  Curriculum: Mystery Science  Day 1: Introduction Video & Discussion  Day 2: Lab & Lab Paper  Day 3 & 4: End of Video, Discussion & Teacher pay teacher worksheet to go along with lesson
worthless into gold?		Mystery Science Assessment for each lesson	Day 5: Test: https://docs.google.com/presentation/d/1tVN VK-R8qL7AsqhJ2CZWhc01UmieuJ4w3oaJsG5rd rw/edit?usp=sharing Key: https://docs.google.com/presentation/d/1nT7 uBgD0uEfOuLy1v3U4V3PRLv91gDurYRPdynaU mws/edit?usp=sharing Material: Mystery Science Lab Sheets & Assessments Readworks readings Student Readers (English & Spanish Carolina Science Kits)

		chrome-extension://bpmcpldpdmajfigpchkicef oigmkfalc/views/app.html (powerpoint) http://sciencespot.net/Media/atomsfam.pdf (worksheets) Teachers Pay Teachers: Supplemental Mystery Science papers https://www.teacherspayteachers.com/Produc t/Molecule-Learning-Stations-Intro-to-Modelin g-Molecules-with-QR-code-fun-850361 https://www.teacherspayteachers.com/Produc t/NGSS-Matter-and-Its-Interactions-Bundle-24 1935 (Separating Mixtures Lab, Oil Spills Lab, Apples and Oranges Lab, Talk about Dense Lab,) https://www.teacherspayteachers.com/Produc t/NGSS-Aligned-Chemical-Reactions-Lab-5-PS1 -4-and-MS-PS1-2-2314975 Lego Atom Building Activity: http://periodictable.com/; https://ed.ted.com/lessons/the-genius-of-men deleev-s-periodic-table-lou-serico Readworks article: Talk about Dense
		Readworks article: Talk about Dense Better Lessons Online Plans & Activities
5-PS1-3	Obj. We are learning to:  I can make observations and measurements to identify materials based on their properties.  Suggested Formative Assessment(s):  Mystery Science Assessment for each lesson	Curriculum: Mystery Science  Day 1: Introduction Video & Discussion  Day 2: Lab & Lab Paper  Day 3 & 4: End of Video, Discussion &  Teacher pay teacher worksheet to go along with lesson  Day 5: Test
	5-PS1-3	<ul> <li>I can make observations and measurements to identify materials based on their properties.</li> <li>Suggested Formative Assessment(s):</li> </ul>

acid?	Materials:
acia.	Test:
	https://docs.google.com/presentation/d/1tV
	NVK-R8qL7AsqhJ2CZWhc01UmieuJ4w3oaJsG
	5rdrw/edit?usp=sharing
	Key:
	https://docs.google.com/presentation/d/1nT
	7uBgD0uEfOuLy1v3U4V3PRLv91gDurYRPdyna
	Umws/edit?usp=sharing
	Mystery Science Lab Sheets & Assessments
	Readworks readings
	Student Readers (English & Spanish Carolina
	Science Kits)
	generationgenius.com
	Atom's Family Packet (Google Drive)
	Periodic Table of Elements
	chrome-extension://bpmcpldpdmajfigpchkicef
	oigmkfalc/views/app.html (powerpoint)
	http://sciencespot.net/Media/atomsfam.pdf
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	Teachers Pay Teachers:
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	https://www.teacherspayteachers.com/Produc
	t/Molecule-Learning-Stations-Intro-to-Modelin
	g-Molecules-with-QR-code-fun-850361
	https://www.teacherspayteachers.com/Produc
	t/NGSS-Matter-and-Its-Interactions-Bundle-24
	1935 (Separating Mixtures Lab, Oil Spills Lab,
	Apples and Oranges Lab, Talk about Dense
	Lab,)
	https://www.teacherspayteachers.com/Produc
	t/NGSS-Aligned-Chemical-Reactions-Lab-5-PS1
	-4-and-MS-PS1-2-2314975

			Lego Atom Building Activity: http://periodictable.com/; https://ed.ted.com/lessons/the-genius-of-men deleev-s-periodic-table-lou-serico Readworks article: Talk about Dense Better Lessons Online Plans & Activities
Week 5 & 6: Lesson 4: What do fireworks, rubber and Silly Putty have in common?	5-PS1-4	<ul> <li>Obj. We are learning to:         <ul> <li>I can conduct an investigation to determine whether the mixing of two or more substances results in new substances.</li> </ul> </li> <li>Suggested Formative Assessment(s):         <ul> <li>Mystery Science Assessment for each lesson</li> </ul> </li> </ul>	Curriculum: Mystery Science  Day 1: Play the first three slides ( 2 videos & a discussion)  Day 2: Lab Day Slides 4 (Stop at Step 11 of 17 which is testing all substances, writing it down & clean up)  Day 3: Mystery Goo (Slides 12 through 17. )  Day 4: Property of Matter Worksheet: https://drive.google.com/drive/u/0/my-drive  Day 5: Physical and Chemical Change: Video: https://www.youtube.com/watch?v=x49BtB5d  Owg  Physical and Chemical Cut and Paste  Day 6: Lab #4 Assessment  Day 7: Genius Generation: Properties of Matter  Day 8: Genius Generation Quiz  Day 9: TPT Worksheet  Day 10: Atoms Family Packet  Material:  Day 6 Test: https://docs.google.com/presentation/d/1tVN  VK-R8qL7AsqhJ2CZWhc01UmieuJ4w3oaJsG5rd  rw/edit?usp=sharing  Key:
			https://docs.google.com/presentation/d/1nT7

mws/edit/usp-sharing Mystery Science Lab Sheets & Assessments Readworks readings Student Readers (English & Spanish Carolina Science Kits) generationgenius.com Atom's Family Packet (Google Drive) Periodic Table of Elements chrome-extension://bpmcpldpdmajfigpchkicef oigimKalc/views/app.html (powerpoint) http://sciencespot.net/Media/atomsfam.pdf (worksheets) Teachers Pay Teachers: Supplemental Mystery Science papers https://www.teacherspayteachers.com/Produc t/Molecule-Learning, Stations-Intro-to-Modelin g-Molecules-with-QR-code-fun-850361 https://www.teacherspayteachers.com/Produc t/MSS-Malter-and-Its-Interactions-Bundle-24 1935 (Separating Mixtures Lab, Oil Spills Lab, Apples and Oranges Lab, Talk about Dense Lab,) https://www.teacherspayteachers.com/Produc t/NGSS-Aligned-Chemical-Reactions-Lab-5-PS1 -4-and-MS-PS1-2-2314975 Lego Atom Building Activity; http://periodictable.com/; https://ed.ted.com/lessons/the-genius-of-men deleev-s-periodic-table-lou-serico Readworks article: Talk about Dense		
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		Better Lessons Online Plans & Activities

	F DC 4.4	lating to the	
Week 7 &	5-PS-1-1	Obj. We are learning to:	Curriculum: Mystery Science
<b>8</b> : Lesson 5:		I can develop a model to describe that	<u>Day 1</u> : Solid, Liquid and Gas Discussion &
Why do		matter is made of particles too small to be	worksheet about how the particles look
some things		seen.	<u>Day 2</u> : Mystery Science Intro
explode?		Suggested Formative Assessment(s):	<u>Day 3</u> : Lab Day 1
		<ul> <li>Mystery Science Assessment for each lesson</li> </ul>	Day 4: Lab Day 2
			<u>Day 5</u> : Discussion of the results
			<b>Day 6</b> : Review of the gas particle
			https://www.youtube.com/watch?v=wclY8F-U
			<u>oTE</u>
			TPT worksheet
			Day 7: Assessment
			Material:
			Mystery Science Lab Sheets & Assessments
			Readworks readings
			Student Readers (English & Spanish Carolina
			Science Kits)
			generationgenius.com
			Atom's Family Packet (Google Drive)
			Periodic Table of Elements
			chrome-extension://bpmcpldpdmajfigpchkicef
			oigmkfalc/views/app.html (powerpoint)
			http://sciencespot.net/Media/atomsfam.pdf
			(worksheets)
			Teachers Pay Teachers:
			Supplemental Mystery Science papers
			https://www.teacherspayteachers.com/Produc
			t/Molecule-Learning-Stations-Intro-to-Modelin
			g-Molecules-with-QR-code-fun-850361
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			1935 (Separating Mixtures Lab, Oil Spills Lab,
			Apples and Oranges Lab, Talk about Dense

			Lab,) https://www.teacherspayteachers.com/Produc t/NGSS-Aligned-Chemical-Reactions-Lab-5-PS1 -4-and-MS-PS1-2-2314975 Lego Atom Building Activity: http://periodictable.com/; https://ed.ted.com/lessons/the-genius-of-men deleev-s-periodic-table-lou-serico Readworks article: Talk about Dense Better Lessons Online Plans & Activities
Week 9: Review & PS1-2 Unit Test PS1-3 PS1-4	• I rrs	can develop a model to describe that matter is made of particles too small to be seen.  I can conduct an investigation to determine whether the mixing of two or more substances results in new substances.  I can make observations and measurements to identify materials based on their properties.  I can measure and graph quantities to provide evidence that regardless of the type of change, the total weight of matter is conserved.  The conserved of the type of change of the type of change of the total weight of matter is conserved.  The conserved of the total weight of matter is conserved.  The conserved of the type of the typ	Curriculum: Mystery Science Review concepts: Genius Generation Videos:  1. Conservation of Matter 5-PS1-2  2. Particle Nature of Matter 5-PS1-1  3. Properties of Matter 5-PS1-3  4. Properties of Matter: Chemical vs. Physical 5-PS1-4  Material: Unit Test Test: https://docs.google.com/presentation/d/1tVN VK-R8qL7AsqhJ2CZWhc01UmieuJ4w3oaJsG5rd rw/edit?usp=sharing Key: https://docs.google.com/presentation/d/1nT7 uBgD0uEfOuLy1v3U4V3PRLv91gDurYRPdynaU

**ELA Enduring Understanding Statements**