## Alabama Standard Course of Study (aligned with STARBASE lessons)





Alabama Standard Course of Study - ELA READING (5th Grade)	Objectives	Correlating DoD STARBASE Lesson	Correlating STARBASE Lesson Objective
10. [RI.5.1] Quote accurately from a text when explaining what the text says explicitly and when	Objectives: - ELA 5.10.1-4: Refer to details and examples, ask and answer questions to demonstrate understanding, identify and select the correct passage when responding to questions, and select the correct passage when responding to questions.	STEM Careers: Personal Investigations	Personal Investigations 1. The learner will correlate their academic endeavors in STEM areas to real-world applications in career fields.
11. [RI.5.2] Determine two or more main ideas of a text and explain how they are supported by key details; summarize the text.	Objectives: - ELA 5.11.13: Determine the main idea of a text and explain how it is supported by key details; summarize the text, and identify the main topic and retell key details of a text .	STEM Careers: Personal Investigations	Personal Investigations 1. The learner will correlate their academic endeavors in STEM areas to real-world applications in career fields.
<ol> <li>[RI.5.4] Determine the meaning of general academic and domain- specific words and phrases in a text relevant to a Grade 5 topic or subject area.</li> </ol>	Objectives: - ELA 5.13.16: Determine the meaning of general academic and domain-specific words or phrases, ask and answer questions to help determine or clarify the meaning of words and phrases in a text, categorize objects and/or words, and sort objects and/or words from academic or domain specific words and phrases.	All lessons apply to this standard	See STARBASE Curriculum Standards
comprehend informational	Objectives: - ELA 5.19.1A82: Read and comprehend informational texts, including history/social studies, science, and technical texts with scaffolding as needed.	STEM Careers: Personal Investigations	Personal Investigations 1. The learner will correlate their academic endeavors in STEM areas to real-world applications in career fields.

20. Know and apply grade- level phonics and word analysis skills in decoding words.	Objectives: - ELA 5.20.14: Define morphology and syllabication patterns, identify suffixes and prefixes, decode words with Latin suffixes/prefixes, Decode multisyllabic words, Read irregularly spelled words, Read regularly spelled words.		<ul> <li>Energy</li> <li>1. The learner will understand that energy transfers in many ways, such as heat, light, electricity, mechanical motion, sound, and the nature of a chemical.</li> <li>2. The learner will conclude a change in the state of matter of a substance is the result of a change in kinetic energy.</li> <li>3. The learner will differentiate between a physical change in which matter changes state or form and a chemical change in which one or more new substances are formed.</li> <li>4. The learner will understand all energy can be classified as potential energy (such as chemical, mechanical, nuclear, and gravitational energy) or kinetic energy (such as radiant, thermal, motion, sound, and electrical energy).</li> </ul>
Alabama Standard Course of Study - MATH (5th Grade)	Objectives	DoD STARBASE Lesson	STARBASE Lesson Objective
1. [5.OA.1] Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.	Objectives: - M. 5.1.16: Define parentheses, braces, and brackets and numerical expressions, Recognize expressions, Apply properties of operations as strategies to add and subtract, Recall properties of operations, and Represent addition and subtraction with objects, mental images, drawings, expressions, or equations	Technology: Robotics Challenge	<i>Technology:</i> 1. The learner will employ current and emerging technologies to solve a simulated or realworld problem. 2. The learner will use multiple processes and diverse perspectives to explore alternative solutions

<ul> <li>6. [5.NBT.3] Read, write, and compare decimals to thousandths using base-ten numerals, number names, and expanded form.</li> <li>Compare two decimals to thousandths based on meanings of the digits in each place+A15.</li> </ul>	Objectives: - M. 5.6.14: Recognize decimals as parts of a whole. Compare whole numbers. Read and Write whole numbers in words and expanded form .Define expanded notation and standard form.Convert a number written in expanded to standard form. Read and write numbers to 1000 using base- ten numerals, number names, and expanded form. Define hundredths and thousandths.Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits using >, =, and < symbols to record the results of comparisons. Identify comparison symbols.	Technology: Robotics Challenge Mathematics: Fingerprint Analysis	<ul> <li>Physics &amp; Chemistry</li> <li>1. The learner will recognize examples of motion and force in the physical world.</li> <li>2. The learner will demonstrate that an object in motion will stay in motion or an object at rest will stay at rest unless acted upon by an outside force. (Newton's First Law)</li> <li>3. The learner will determine that acceleration is produced when a force acts on a mass. The greater the mass, the greater the amount of force necessary to accelerate the mass. (Newton's Second Law)</li> <li>4. The learner will conclude every action is followed by a reaction equal in magnitude and opposite in direction. (Newton's Third Law)</li> <li>Technology</li> <li>The learner will employ current and emerging technologies to solve a simulated or realworld problem.</li> <li>The learner will use multiple processes and diverse perspectives to explore alternative solutions <i>Mathematics</i></li> <li>The learner will solve problems using ratios expressed as a fraction, a decimal, or a percent.</li> </ul>
10. [5.NBT.7] Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method, and explain the reasoning used.	Objectives: - M. 5.10.19: Use decimal notation for fractions with denominators 10 or 100, Multiply and divide within 100 using properties of operations, Add and subtract within 1000 using strategies and algorithms, Apply properties of operations as strategies to multiply and divide, Explain why addition and subtraction strategies work, Identify place value as hundreds and Recall basic addition, subtraction, multiplication, and division fact	Fingerprint Analysis Eggbert	<ul> <li>Mathematics</li> <li>1. The learner will solve problems using ratios expressed as a fraction, a decimal, or a percent.</li> <li>Engineering</li> <li>1. The learner will recognize the engineering design process is a method of problem solving used to create a system, a product, or a process that meets an identified need.</li> <li>2. The learner will apply the steps of the Engineering Design Process to solve a simulated or real-world problem.</li> <li>Engineering</li> <li>1. The learner will recognize the engineering design process is a method of problem solving used to create a system, a product, or a process that meets an identified need.</li> <li>2. The learner will recognize the engineering design process is a method of problem solving used to create a system, a product, or a process that meets an identified need.</li> <li>2. The learner will apply the steps of the Engineering Design Process to solve a simulated or real-world problem.</li> </ul>

11. [5.NF.1] Add and	Objectives:	Mathematics: Fingerprint	Mathematics
subtract fractions with	- M. 5.11.110: Recall a fraction with a > 1 as a sum of	Analysis	1. The learner will solve problems using ratios expressed as
unlike denominators	fractions, Recall addition and subtraction of fractions as		a fraction, a decimal, or a percent.
(including mixed numbers)	joining and separating parts referring to the same whole,		
	Decompose a fraction and Justify decompositions, using a		
	visual fraction models. Add and subtract mixed numbers,		
	Explain equivalence of fractions in special cases, and compare		
	fractions by reasoning about their size.		
	Identify two fractions as equivalent, Recognize and generate		
	simple equivalent fractions using visual models,		
	Express whole numbers as fractions, and recognize fractions		
	that are equivalent to whole numbers, Compare fractions, and		
	Recall basic math facts.		
13. [5.NF.3] Interpret a	Objectives:	Mathematics:	Mathematics
fraction as division of the	- M. 5.13.16: Define mixed number. Recognize a fraction	Fingerprinting	1. The learner will solve problems using ratios expressed as
numerator by the	with a > 1 as a sum of fractions. Identify that fraction is		a fraction, a decimal, or a percent.
denominator. Solve word	equivalent to fraction by using visual fraction models,		
problems involving division	Generate equivalent fractions. Recognize a fraction as a		
of whole numbers leading	number on the number line and represent fractions on a		
to answers in the form of	number line diagram. Identify fraction as the quantity		
fractions or mixed	formed by 1 part when a whole.		
numbers, by using visual			
fraction models or			
equations to represent the			
problem.			

14. [5.NF.4] Apply and	Objectives:	Mathematics: Engineering	Mathematics
extend previous	-		1. The learner will solve problems using ratios expressed as
understandings of	using denominators between 2 and 5. Identify proper and		a fraction, a decimal, or a percent.
multiplication to multiply a	improper fractions. Recall basic multiplication facts.		
fraction or whole number	changing a whole number to a fraction. Partition a rectangle		
by a fraction.	into rows and columns of same-size squares, and count to find		
- Find the area of a	the total number of them. Label the numerator and		
rectangle with fractional	denominator of a fraction. Count the area squares for the		
-	length and width. Identify the width and length of a rectangle.		
unit squares of the			
appropriate unit fraction			
side lengths, and show that			
the area is the same as			
would be found by			
multiplying the side			
lengths. Multiply fractional			
side lengths to find areas of			
rectangles, and represent			
fraction products as			
rectangular areas.			
15. [5.NF.5] Interpret	Objectives:	Mathematics:	Mathematics
multiplication as scaling	- M. 5.15.19: Define scaling and principle of fraction	Fingerprinting	1. The learner will solve problems using ratios expressed as
(resizing)	equivalence, Multiply a fraction by a whole number,		a fraction, a decimal, or a percent.
- Comparing the size of a	Compare two fractions with the same numerator or the same		
product to the size of one	denominator by reasoning about their size. Recognize that		
factor on the basis of the	comparisons are valid only when the two fractions refer to the		
size of the other factor,	same whole. Record the results of comparisons with the		
without performing the	symbols >, =, or <, and		
indicated multiplication.	justify with visual modeling, Express whole numbers as		
	fractions, and recognize fractions that are equivalent to whole		
	number, Identify factor and product and B17Use comparison		
	symbols.		

17. [5.NF.7] Apply and	Objectives:	Mathematics:	Mathematics
extend previous	- M. 5.17.13: Define quotient, Multiply a fraction by a whole	Fingerprinting	1. The learner will solve problems using ratios expressed as
understandings of division	number, Recognize key terms to solve word problems, Recall		a fraction, a decimal, or a percent.
to divide unit fractions by	basic multiplication and division facts, Recognize multiples.		
whole numbers and whole	Express whole numbers as fractions.		
numbers by unit fractions.	Recognize fractions that are equivalent to whole numbers.		
- Interpret division of a unit	Recall basic multiplication and division facts, Solve word		
fraction or whole number,	problems involving multiplication of a fraction by a whole		
and compute such	number, by using visual fraction models and equations to		
quotients.	represent the problem. Recognize key terms to solve word		
- Solve real-world	problems and Recall basic multiplication and division facts.		
problems			

18. [5.MD.1] Convert	Objectives:	Physics & Chemistry:	Physics & Chemistry
among different-sized	- M. 5.18.16: Identify relative sizes of measurement units	Newton's 2nd Law	1. The learner will recognize examples of motion and force
standard measurement	within one system of units, including km, m, cm; kg, g; lb, oz; l,		in the physical world.
units within a given	ml; and hr, min, sec. Express measurements in a larger unit in	Energy: Physical and	2. The learner will demonstrate that an object in motion
measurement system, and	terms of a smaller unit. Solve two-step word problems.	Chemical Changes	will stay in motion or an object at rest will stay at rest
use these conversions+A19	Measure and estimate liquid volumes and masses of objects		unless acted upon by an outside force. (Newton's First Law)
in solving multistep, real-	using standard units of grams (g), kilograms (kg), and liters (l).	Technology: Robotics	3. The learner will determine that acceleration is produced
world problems.	Add, subtract, multiply, or divide to solve one-step word	Challenge	when a force acts on a mass. The greater the mass, the
	problems involving masses or volumes that are given in the		greater the amount of force necessary to accelerate the
	same units, by using drawings to represent the problem.	Mathematics: Basic	mass. (Newton's Second Law)
		Measurement	4. The learner will conclude every action is followed by a
			reaction equal in magnitude and opposite in direction.
		Mathematics: Engineering	(Newton's Third Law)
		Measurement Training	Energy
			1. The learner will understand that energy transfers in many
			ways, such as heat, light, electricity, mechanical motion,
			sound, and the nature of a chemical.
			2. The learner will conclude a change in the state of matter
			of a substance is the result of a change in kinetic energy.
			3. The learner will differentiate between a physical change
			in which matter changes state or form and a chemical
			change in which one or more new substances are formed.
			4. The learner will understand all energy can be classified as
			potential energy (such as chemical, mechanical, nuclear,
			and gravitational energy) or kinetic energy (such as radiant,
			thermal, motion, sound, and electrical energy).
			Technology
			1. The learner will employ current and emerging
			technologies to solve a simulated or realworld problem.
			2. The learner will use multiple processes and diverse

19. [5.MD.2] Make a line	Objectives:	Basic Graphing	Mathematics
	-		
plot to display a data set of	- M. 5.19.16: Make a line plot to display a data set of		1. The learner will collect data using observations and
measurements in fractions	measurements in fractions of a unit. Solve problems involving		experiments.
	addition and subtraction of fractions by using information		2. The learner will represent data using tables and graphs.
fractions for this grade to	presented in line plots. Draw a scaled picture graph and a		3. The learner will collect and analyze data to identify
solve problems involving	scaled bar graph to represent a data set with several		solutions and/or make informed decisions.
information presented in	categories. Solve one- and two-step "how many more" and		
line plots. Given different	"how many less" problems using information presented in		
measurements of liquid in	scaled bar graphs. Draw a picture graph and a bar graph to		
identical beakers, find the	represent a data set with up to four categories. Solve simple		
amount of liquid each	put-together, take-apart, and compare problems using		
beaker wo+A22uld contain	information presented in a bar graph.		
if the total amount in all the			
beakers were redistributed			
equally.			
20. [5.MD.3] Recognize	-	Mathematics: Engineering	
volume as an attribute of	- M. 5.20ab.18: Define volume including the formulas $V = I x$	=	1. The learner will solve problems using ratios expressed as
solid figures, and	w x h, and V = B x h. Define solid figures &unit cubes.		a fraction, a decimal, or a percent.
understand concepts of	Recognize that shapes in different categories may share		
volume measurement.	attributes, and that the shared attributes can define a larger		
	category. Recognize & Draw examples of quadrilaterals,		
	Describe attributes of 2D and 3D figures.		
	Compare the unit size of volume/capacity in the metric system		
	including milliliters and liters.		

21. [5.MD.4] Measure	Objectives:	Physics & Chemistry:	Physics & Chemistry
volumes by counting unit	- M. 5.21.17: Define cubic inches, centimeters, and feet.	Newton's 2nd Law	1. The learner will recognize examples of motion and force
	Compare the unit size of volume/capacity in the customary		in the physical world.
in, cubic ft, and improvised	system including fluid ounces, cups, pints, quarts, gallons.	Energy: Physical and	2. The learner will demonstrate that an object in motion
units.	Measure areas by counting unit squares. Measure and	Chemical Changes	will stay in motion or an object at rest will stay at rest
	estimate liquid volumes and masses of objects using standard		unless acted upon by an outside force. (Newton's First Law)
	units of grams (g), kilograms (kg), and liters (l). Add, subtract,	Technology: Robotics	3. The learner will determine that acceleration is produced
	multiply, or divide to solve one-step word problems involving	Challenge	when a force acts on a mass. The greater the mass, the
	mass/volume.B22 Recall basic multiplication facts and	Mathematics:	greater the amount of force necessary to accelerate the
	Fluently add.	Basic Measurement	mass. (Newton's Second Law)
			4. The learner will conclude every action is followed by a
		Mathematics: Engineering	reaction equal in magnitude and opposite in direction.
		Measurement Training	(Newton's Third Law)
			Energy
			1. The learner will understand that energy transfers in many
			ways, such as heat, light, electricity, mechanical motion,
			sound, and the nature of a chemical.
			2. The learner will conclude a change in the state of matter
			of a substance is the result of a change in kinetic energy.
			3. The learner will differentiate between a physical change
			in which matter changes state or form and a chemical
			change in which one or more new substances are formed.
			4. The learner will understand all energy can be classified as
			potential energy (such as chemical, mechanical, nuclear,
			and gravitational energy) or kinetic energy (such as radiant,
			thermal, motion, sound, and electrical energy).
			Technology
			1. The learner will employ current and emerging
			technologies to solve a simulated or realworld problem.
			2. The learner will use multiple processes and diverse
			2. The rearrier will use multiple processes and diverse

	Objectives:	•••••	Energy
to the operations of	- M. 5.22.19: Define volume, Recognize angle measure.	Chemical Changes	1. The learner will understand that energy transfers in many
	Solve addition and subtraction problems to find unknown		ways, such as heat, light, electricity, mechanical motion,
			sound, and the nature of a chemical.
mathematical problems	for rectangles, Solve real-world and mathematical problems	Measurement	2. The learner will conclude a change in the state of matter
involving volume.	involving perimeters of polygons.		of a substance is the result of a change in kinetic energy.
- Find the volume of a right	Recognize the formula for volume. Recall the attributes of 3D	Mathematics: Engineering	3. The learner will differentiate between a physical change
rectangular prism with	solids. Recall basic multiplication facts. Fluently add.	Measurement Training	in which matter changes state or form and a chemical
whole-number side lengths	Compare the unit size of volume/capacity in the metric system		change in which one or more new substances are formed.
by packing it with unit	including milliliters and liters. Measure and estimate liquid		4. The learner will understand all energy can be classified as
cubes, and show that the	volumes. Compare the unit size of volume/capacity in the		potential energy (such as chemical, mechanical, nuclear,
volume is the same as	metric system including milliliters and liters. Recognize the		and gravitational energy) or kinetic energy (such as radiant,
would be found by	formula for volume. Describe attributes of 2D and 3D figures		thermal, motion, sound, and electrical energy).
multiplying the edge	and Identify solid figures.		Mathematics
lengths, equivalently by			1. The learner will apply appropriate standard units and
multiplying the height by			tools to measure length.
the area of the base.			2. The learner will apply appropriate standard units and
- Apply the formulas for			tools to measure liquid volume.
rectangular prisms to find			3. The learner will apply appropriate standard units and
volume			tools to measure mass.
- Recognize volume as			Mathematics
additive. Find volumes of			1. The learner will solve problems using ratios expressed as
solid figures.A23			a fraction, a decimal, or a percent.

	Objectives:	Mathematics: Fly On the	Mathematics
perpendicular number	- M. 5.23.18: Define ordered pair of numbers. Define x-axis,	Ceiling (Day 4)	1. The learner will recognize geometric properties and
	y-axis, and zero on a coordinate.Specify locations on the	Mathematics:	relationships and apply them to other disciplines and to
-	coordinate system.Illustrate vertical and horizontal number	Fingerprinting (Day 2)	simulated or real-world problems.
the intersection of the lines	lines.Label x- and y-axis and zero on a coordinate.	Mathematics: Basic	Mathematics
(the origin) arranged to	Locate negative & positive numbers on the axis.	Graphing (Day 2)	1. The learner will solve problems using ratios expressed as
coincide with the 0 on each			a fraction, a decimal, or a percent.
line and a given point in the			Mathematics
plane located by using an			1. The learner will collect data using observations and
ordered pair of numbers,			experiments.
called its coordinates.			2. The learner will represent data using tables and graphs.
Understand that the first			3. The learner will collect and analyze data to identify
number indicates how far			solutions and/or make informed decisions.
to travel from the origin in			
the direction of one axis,			
and the second number			
indicates how far to travel			
in the direction of the			
second axis, with the			
convention that the names			
of the two axes and the			
coordinates correspond.			
24. [5.G.2] Represent real-	Objectives:	Mathematics: Fly On the	Mathematics
world and mathematical	- M. 5.24.15: Define ordered pair of numbers, quadrant	Ceiling	1. The learner will recognize geometric properties and
	one, coordinate plane, and plot points. Label the horizontal	B	relationships and apply them to other disciplines and to
	axis (x), vertical axis (y). Identify the x and y values in ordered		simulated or real-world problems.
	pairs. Model writing ordered pairs.		sinduced of real world problems.
and interpret coordinate			
values of points in the			
context of the situation.			
context of the situation.			

26. [5.G.4] Classify two- dimensional figures in a hierarchy based on properties.	Objectives: - M. 5.26.14: Define vertex/vertices and angle. Identify that shapes in different categories may share attributes, and that the shared attributes can define a larger category. Recognize and draw shapes having specified attributes such as a given number of angles or a given number of equal faces. Identify polygons based on the number of sides, angles, and vertices.	Technology: Robotics Challenge	<i>Technology</i> 1. The learner will employ current and emerging technologies to solve a simulated or realworld problem. 2. The learner will use multiple processes and diverse perspectives to explore alternative solutions
Alabama Standard Course of Study - SCIENCE (5th Grade)	Evidence of Student Attainment	DoD STARBASE Lesson	STARBASE Lesson Objective
3. Examine matter through	Objectives: SCI.5.3.14: Define conductivity, solubility, density, buoyancy, reflectivity, and thermal conductivity. Compare and contrast different materials based on their identified properties. Classify substances based on their identified physical properties. Identify properties of matter that can be used to identify materials.	Physics & Chemistry: Chromatography	<ul> <li>Physics &amp; Chemistry:</li> <li>1. The learner will conclude there are more than 100 known elements that combine in a multitude of ways to produce compounds, which account for all living and non-living substances.</li> <li>2. The learner will demonstrate that atoms combine to form molecules and molecules formed from different atoms combine to form compounds.</li> <li>3. The learner will recognize a substance has characteristics, such as density, viscosity, boiling point, and solubility, all of which are independent of the amount of the sample.</li> </ul>

mixing of two or more substances results in new substances (e.g., mixing of baking soda and vinegar resulting in the formation of a new substance, gas; mixing of sand and water resulting in no new substance, gas; mixing of sand and water resulting in no new substance bein+A35g formed).       Chemical Changes       Chemical Changes Physics & Chemistry: Chromatography       1. The learner will understand that energy transfers in may ways, such as heat, light, electricity, mechanical motion, sound, and the nature of a chemical.         0.1. The interact of a changes in the formation of a new substance, gas; mixing of sand and water resulting in no new substance bein+A35g formed).       1. The learner will conclude a change in the state of matt of a substance is the result of a change in which the energy of the energy or hinetic energy (such as a radia thermal, motichang, sound, and electrical energy).         9. The learner will conclude there are more than 100 kno elements that combine to a multitude of ways to produce compounds, which account for all living and non-living substances.       1. The learner will demonstrate that atoms combine to form molecules and molecules formed from different ato combine to form compounds.         5. Construct explanations from observations to       Objectives: SCI.5.5.1-4: Define mass, volume, density, and buoyancy.       Physics & Chemistry: What's the Solution       Physics & Chemistry: 1. The learner will conclude there are more than 100 kno	4. Investigate whether the	Objectives:	Energy: Physical and	Energy:
substances results in new substances (e.g., mixing of baking soda and vinegar and a physical reaction. Identify examples of physical and chemical changes.Physics & Chemistry: Chromatographyways, such as heat, light, electricity, mechanical motion, sound, and the nature of a chamical.of a new substance, gas; mixing of sand and water resulting in no new substance bein+A35g formed).chemical changes.Physics & Chemistry: Chromatography2. The learner will conflued a change in the state of math of a substance is the result of a chamical, nuclear, and gravitational energy of kinetic energy. S. The learner will understand all energy can be classified potential energy (such as chemical, muclear, and gravitational energy) or kinetic energy. Physics & Chemistry: 1. The learner will demonstrate that atoms combine to gravital energy. Physics & Chemistry: 1. The learner will demonstrate that atoms combine to form molecules formed from different ato compounds, which account for all living and non-living substances.5. Construct explanations form observations toObjectives: SCI.5.5.1-4: Define mass, volume, density, and buoyancy.Physics & Chemistry: What's the SolutionPhysics & Chemistry: 1. The learner will conclude there are more than 100 kno elements that combine to and unclude there are more than 100 kno elements that combine to form molecules formed from different ato combine to form molecules formed from different ato combine to form compounds. 3. The learner will deconstrate that atoms combine to form independent of the amount of the sample.5. Construct explanations from observations toObjectives: SCI.5.5.1-4: Define mass, volume, density, and buoyancy.Physics & Chemistry: What's the SolutionPhysics & Chemistry:		-		1. The learner will understand that energy transfers in many
substances (e.g., mixing of baking soda and vinegar resulting in the formation of a new substance, gas; mixing of sand and water resulting in no new substance bein+A35g formed).contrast physical and chemical changes.Physics & Chemistry: Chromatography2. The learner will conclude a change in kinetic energy. 3. The learner will differentiate between a physical change in which matter changes state or form and a chemical change in which one or more new substances is the result of a change in which matter changes state or form and a chemical change in which one or more new substances are formed 4. The learner will understand all energy can be classified potential energy (such as chemical, nuclear, and gravitational energy) or kinetic energy. 1. The learner will conclude there are more than 100 kno elements that combine in a multitude of ways to produce compounds, which account for all living and non-living substances.5. Construct explanations form observations toObjectives: SCL5.5.1-4: Define mass, volume, density, and buoyancy.Physics & Chemistry: What's the SolutionPhysics & Chemistry: 1. The learner will conclude there are more than 100 kno elements of the amount of the sample.	_			
baking soda and vinegar resulting in the formation of a new substance, gas; mixing of sand and water resulting in no new substance bein+A35g formed).and a physical reaction. Identify examples of physical and chemical changes.Chromatography2. The learner will conclude a change in the state of matt of a substance, is the result of a change in the interest of a change in the state of matt of a substance bein+A35g formed).2. The learner will offerentiate between a physical change in which matter changes state or form and a chemical change in which one or more new substances are formed 4. The learner will understand all energy (such as chemical, mechanical, nuclear, and gravitational energy) or kinetic energy. <i>Physics &amp; Chemistry:</i> 1. The learner will conclude there are more than 100 kno elements that combine in a multitude of ways to produce compunds, which account for all living and non-living substances.5. Construct explanations from observations toObjectives: SCI.5.14: Define mass, volume, density, and buoyancy.Physics & Chemistry: Unstate the solutionPhysics & Chemistry: 1. The learner will conclude there are more than 100 kno elements that combine to form offer and solubility, all which are independent of the amount of the sample.			Physics & Chemistry:	
resulting in the formation of a new substance, gas; mixing of sand and water resulting in no new substance bein+A35g formed).of a substance is the result of a change in kinetic energy. 3. The learner will differentiate between a physical chang in which matter changes state or form and a chemical change in which one or more new substances are formed 4. The learner will understand all energy can be classified potential energy (such as chemical, mechanical, nuclear, and gravitational energy) or kinetic energy). Physics & Chemistry: 1. The learner will conclude there are more than 100 kno elements that combine in a multitude of ways to produce compounds, which account for all living and non-living substances. 2. The learner will demonstrate that atoms combine to form objectives: such as density, viscosity, boiling point, and solubility, all which are independent of the amount of the sample.5. Construct explanations form observations toObjectives: SCI.5.5.14: Define mass, volume, density, and buoyancy.Physics & Chemistry: What's the SolutionPhysics & Chemistry: 1. The learner will conclude there are more than 100 kno elements that combine in a multitude of the sample.			Chromatography	2. The learner will conclude a change in the state of matter
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resulting in no new       change in which one or more new substances are formed.         formed).       A. The learner will understand all energy can be classified potential energy (such as chemical, mechanical, nuclear, and gravitational energy) or kinetic energy (such as radiar thermal, motion, sound, and electrical energy). <i>Physics &amp; Chemistry:</i> 1. The learner will conclude there are more than 100 kno elements that combine in a multitude of ways to produce compounds, which account for all living and non-living substances.         2. The learner will demonstrate that atoms combine to form molecules formed from different ato combine to form compounds.         3. The learner will recognize a substance has characterist such as density, viscosity, boiling point, and solubility, all which are independent of the amount of the sample.         5. Construct explanations to       Objectives:         from observations to       Scl.5.5.1-4: Define mass, volume, density, and buoyancy.	of a new substance, gas;			3. The learner will differentiate between a physical change
substance bein+A35g       4. The learner will understand all energy can be classified potential energy (such as chemical, mechanical, nuclear, and gravitational energy) or kinetic energy (such as radiar thermal, motion, sound, and electrical energy).         Physics & Chemistry:       1. The learner will conclude there are more than 100 kno elements that combine in a multitude of ways to produce compounds, which account for all living and non-living substances.         2. The learner will demonstrate that atoms combine to form molecules and molecules formed from different ato combine to form compounds.         3. The learner will recognize a substance has characteristi such as density, viscosity, boiling point, and solubility, all which are independent of the amount of the sample.         5. Construct explanations from observations to       Objectives:         Sc.L5.5.1-4: Define mass, volume, density, and buoyancy.       Physics & Chemistry:         1. The learner will conclude there are more than 100 kno	mixing of sand and water			in which matter changes state or form and a chemical
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5. Construct explanations       Objectives:         from observations to       Objectives:         SC. S. S. 14: Define mass, volume, density, and buoyancy.       Physics & Chemistry:         1. The learner will conclude there are more than 100 kno elements that combine in a multitude of ways to produce compounds, which account for all living and non-living substances.         2. The learner will demonstrate that atoms combine to form molecules and molecules formed from different ato combine to form compounds.         3. The learner will recognize a substance has characteristis such as density, viscosity, boiling point, and solubility, all which are independent of the amount of the sample.         5. Construct explanations       Objectives:         from observations to       SCI.5.5.14: Define mass, volume, density, and buoyancy.	formed).			potential energy (such as chemical, mechanical, nuclear,
5. Construct explanations       Objectives:         from observations to       Objectives:         SC. Sci.5.5.14: Define mass, volume, density, and buoyancy.       Physics & Chemistry:         1. The learner will conclude there are more than 100 kno elements that combine in a multitude of ways to produce compounds, which account for all living and non-living substances.         2. The learner will demonstrate that atoms combine to form molecules and molecules formed from different ato combine to form compounds.         3. The learner will recognize a substance has characteristic such as density, viscosity, boiling point, and solubility, all which are independent of the amount of the sample.         5. Construct explanations       Objectives:         Scl.5.5.14: Define mass, volume, density, and buoyancy.       Physics & Chemistry:         Yhat's the Solution       1. The learner will conclude there are more than 100 kno				and gravitational energy) or kinetic energy (such as radiant,
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S. Construct explanations from observations toObjectives: SCI.5.5.14: Define mass, volume, density, and buoyancy.Physics & Chemistry: What's the SolutionPhysics & Chemistry: 1. The learner will conclude there are more than 100 kno				Physics & Chemistry:
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Substances.       2. The learner will demonstrate that atoms combine to form molecules and molecules formed from different ator combine to form compounds.         3. The learner will recognize a substance has characteristic such as density, viscosity, boiling point, and solubility, all which are independent of the amount of the sample.         5. Construct explanations from observations to       Objectives:         Scl.5.5.14: Define mass, volume, density, and buoyancy.       Physics & Chemistry:         What's the Solution       1. The learner will conclude there are more than 100 kno				elements that combine in a multitude of ways to produce
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S. Construct explanations       Objectives:       Physics & Chemistry:       Physics & Chemistry:         from observations to       SCI.5.5.14: Define mass, volume, density, and buoyancy.       What's the Solution       I. The learner will conclude there are more than 100 known				3. The learner will recognize a substance has characteristics,
S. Construct explanations from observations toObjectives: SCI.5.5.14: Define mass, volume, density, and buoyancy.Physics & Chemistry: What's the SolutionPhysics & Chemistry: 1. The learner will conclude there are more than 100 kmore				such as density, viscosity, boiling point, and solubility, all of
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from observations to SCI.5.5.14: Define mass, volume, density, and buoyancy. What's the Solution 1. The learner will conclude there are more than 100 know				
	5. Construct explanations	Objectives:	Physics & Chemistry:	Physics & Chemistry:
determine how the density. Measure the density of various objects Explore different types	from observations to	SCI.5.5.14: Define mass, volume, density, and buoyancy.	What's the Solution	1. The learner will conclude there are more than 100 known
clements the density in density of various objects Explore an elene types	determine how the density	Measure the density of various objects. Explore different types		elements that combine in a multitude of ways to produce
of an object affects of liquid to determine densities. Experiment to determine compounds, which account for all living and non-living	of an object affects	of liquid to determine densities. Experiment to determine		compounds, which account for all living and non-living
whether the object sinks or what types of objects float and which sink when placed in substances.	whether the object sinks or	what types of objects float and which sink when placed in		substances.
floats when placed in a water. 2. The learner will demonstrate that atoms combine to	floats when placed in a	water.		2. The learner will demonstrate that atoms combine to
liquid. form molecules and molecules formed from different ato	liquid.			form molecules and molecules formed from different atoms
combine to form compounds.				·
				3. The learner will recognize a substance has characteristics,
such as density, viscosity, boiling point, and solubility, all				such as density, viscosity, boiling point, and solubility, all of
which are independent of the amount of the sample.				which are independent of the amount of the sample.

6. Construct an explanation from evidence to illustrate that the gravitational force exerted by Earth on objects is directed downward towards the center of Earth.	Objectives: SCI.5.6.14: Define gravitational force. Summarize evidence to show gravitational forces on Earth. Experiment to gather evidence to support gravitational pull. Observe the force of gravity by dropping various objects.	Physics & Chemistry: Newton's Activities	<ul> <li>Physics &amp; Chemistry:</li> <li>1. The learner will recognize examples of motion and force in the physical world.</li> <li>2. The learner will demonstrate that an object in motion will stay in motion or an object at rest will stay at rest unless acted upon by an outside force. (Newton's First Law)</li> <li>3. The learner will determine that acceleration is produced when a force acts on a mass. The greater the mass, the greater the amount of force necessary to accelerate the mass. (Newton's Second Law)</li> <li>4. The learner will conclude every action is followed by a reaction equal in magnitude and opposite in direction. (Newton's Third Law)</li> </ul>
7. Design and conduct a test to modify the speed of a falling object due to gravity (e.g., constructing a parachute to keep an attached object from breaking).*	Objectives: SCI.5.7.15: Define speed, friction, and air resistance. Create, test, and evaluate a prototype solving the problem of modifying the speed of a falling object due to gravity. Record the speed of an object dropped from different heights on a graph. Research to develop possible solutions and devise a plan to the problem of modifying the speed of a falling object due to gravity. B33Define a problem to be solved by modifying the speed of a falling object due to gravity.	Physics & Chemistry: Newton's Activities	<ul> <li>Physics &amp; Chemistry:</li> <li>1. The learner will recognize examples of motion and force in the physical world.</li> <li>2. The learner will demonstrate that an object in motion will stay in motion or an object at rest will stay at rest unless acted upon by an outside force. (Newton's First Law)</li> <li>3. The learner will determine that acceleration is produced when a force acts on a mass. The greater the mass, the greater the amount of force necessary to accelerate the mass. (Newton's Second Law)</li> <li>4. The learner will conclude every action is followed by a reaction equal in magnitude and opposite in direction. (Newton's Third Law)</li> </ul>
Alabama Standard Course of Study - ELA WRITING (5th Grade)	Objectives	DoD STARBASE Lesson	STARBASE Lesson Objective

29. [W.5.8] Recall relevant	Objectives:	STEM Careers: Personal	Personal Investigations
information from	- ELA 5.29.18: Define relevant information, note-taking,	Investigations	1. The learner will correlate their academic endeavors in
experiences or gather	source, and paraphrase. Use note-taking skills to gather and		STEM areas to real-world applications in career fields.
relevant information from	paraphrase ideas from sources related to topic.		
print and digital sources;	With guidance and support from adults, recall information		
summarize or paraphrase	from experiences or gather information from provided		
information in notes and	sources to answer a question. Produce a list of sources using		
finished work, and provide	correct format. Identify captions, illustrations, tables, and		
a list of sources.	photographs to extend meaning of written text. Select the		
	appropriate source of information pertaining to the research		
	topic. Locate bold-faced and italicized words to identify		
	essential information.		
	List key concepts from texts.		

31. [W.5.10] Write routinely	Objectives:	STEM Careers: Personal	Personal Investigations
	-		1. The learner will correlate their academic endeavors in
	Examples: subject journals, story starters, open-ended	, , , , , , , , , , , , , , , , , , ,	STEM areas to real-world applications in career fields.
reflection, and revision, and	questions. Write words and sentences legibly with proper	Engineering: Introduction	Engineering
shorter time frames such as	spacing. Write using varied sentence structure and	to the Engineering Design	1. The learner will recognize the engineering design process
a single sitting or a day or	appropriate transition words. Write complete sentences using	Process	is a method of problem solving used to create a system, a
two for a range of discipline-	correct capitalization, punctuation, spelling, and grammar.		product, or a process that meets an identified need.
specific tasks, purposes,	Determine purpose and audience prior to writing. Participate	Energy: States of Matter	2. The learner will apply the steps of the Engineering Design
and audiences.	in guided writing with anchor charts & teacher modeling.		Process to solve a simulated or real-world problem.
	Participate in shared writing language experience stories.	Physics & Chemistry:	Energy
		Chromatography	1. The learner will conclude that energy in a system is
			conserved and may change from one form to another.
		Physics & Chemistry:	2. The learner will conclude a change in the state of matter
		Newton's Laws	of a substance is the result of a change in kinetic energy.
			3. The learner will differentiate between a physical change
		Physics & Chemistry:	in which matter changes state or form and a chemical
		Bernoulli's Principle	change in which one or more new substances are formed.
		Experiments	4. The learner will understand all energy can be classified as
			potential energy (such as chemical, mechanical, nuclear,
			and gravitational energy) or kinetic energy (such as radiant,
			thermal, motion, sound, and electrical energy).
			Physics & Chemistry
			1. The learner will conclude there are more than 100 known
			elements that combine in a multitude of ways to produce
			compounds, which account for all living and non-living
			substances.
			2. The learner will demonstrate that atoms combine to
			form molecules and molecules formed from different atoms
			combine to form compounds.
			3. The learner will recognize a substance has characteristics,

32. [SL.5.1] Engage	Objectives:	All lessons apply to this	See STARBASE Curriculum Standards
effectively in a range of	- ELA 5.32.18: Build on others' talk in conversations by	standard	
collaborative discussions	responding to the comments of others through multiple		
with diverse partners,	exchanges. Demonstrate eye contact, articulation, and		
building on others' ideas	appropriate voice intonation with oral presentations.		
and expressing their own	Demonstrate appropriate volume and expression when		
clearly.	speaking aloud in a group setting. Select appropriate voice		
- Pose and respond to	tone, gestures, and facial expressions to enhance meaning.		
specific questions by	Utilize precise vocabulary in oral presentations.		
making comments that	Produce complete sentences when appropriate in spoken		
contribute to the discussion	language. Reproduce appropriate turn-taking skills in		
and elaborate on the	conversations. Listen to speaker without interruption.		
remarks of others Review			
the key ideas expressed and			
draw conclusions in light of			
information and knowledge			
gained from the			
discussions.			
33. [SL.5.2] Summarize a	- ELA 5.33.37: Recount or describe key ideas or details	STEM Careers: Personal	Personal Investigations
written text read aloud or	from a text read aloud or information presented orally or	Investigations	1. The learner will correlate their academic endeavors in
information presented in	through other media.Ask and answer questions about key		STEM areas to real-world applications in career fields.
diverse media and formats,	details in a text read aloud or information presented	Engineering: Basic	Mathematics
including visually,	orally or through other media.	Measurement - Length,	1. The learner will apply appropriate standard units and
quantitatively, and orally.	Locate captions, illustrations, tables, and photographs to	Liquid Volume, Mass	tools to measure length.
	extend meaning of written text. Identify key concepts from		2. The learner will apply appropriate standard units and
	the texts.B38 Follow multi-step directions.	Physics & Chemistry:	tools to measure liquid volume.
	i de la companya de l	Chromatography	3. The learner will apply appropriate standard units and
			tools to measure mass.
			Physics & Chemistry
			1. The learner will conclude there are more than 100 known
			elements that combine in a multitude of ways to produce
			compounds, which account for all living and non-living
			substances.
			2. The learner will demonstrate that atoms combine to
			form molecules and molecules formed from different atoms
			combine to form compounds. 3. The learner will recognize a substance has characteristics,
			<b>.</b> .
			such as density, viscosity, boiling point, and solubility, all of
			which are independent of the amount of the sample.

34. [SL.5.3] Summarize the points a speaker makes and explain how each claim is supported by reasons and evidence.	Objectives: - ELA 5.34.15: Define question and elaboration. Ask and answer questions about information from a speaker, offering appropriate elaboration and detail. Ask and answer questions about what a speaker says in order to clarify comprehension, gather additional information, or deepen understanding of a topic or issue. Ask and answer questions about a story read aloud in order to clarify comprehension, gather additional information, or deepen understanding of a topic or issue. Use appropriate grammar. Produce complete sentences when appropriate in spoken language. Reproduce appropriate turn-taking skills in conversations and discussions. Listen to speaker without interruption.	STEM Careers: STEM Careers on Military Facilities	STEM Careers: The learner will develop an awareness that scientists, technicians, engineers and mathematicians work on military facilities.
35. [SL.5.4] Report on a topic or text or present an opinion, sequencing ideas logically and using appropriate facts and relevant, descriptive details to support main ideas or themes; speak clearly at an understandable pace.	Objectives: - ELA 5.35.15: Tell a story or recount an experience with appropriate facts and relevant, descriptive details, speaking audibly in coherent sentences. Describe people, places, things, and events with relevant details, expressing ideas and feelings clearly. Produce complete sentences. Use appropriate grammar and vocabulary. Use eye contact, articulation, and appropriate tone of voice.		Personal Investigations 1. The learner will correlate their academic endeavors in STEM areas to real-world applications in career fields.
<ul> <li>38. [L.5.1] Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.</li> <li>Use verb tense to convey various times, sequences, states, and conditions.</li> <li>Recognize and correct inappropriate shifts in verb tense.</li> </ul>	Objectives: - ELA 5.38.17: Use relative pronouns and relative adverbs.Form and use the progressive.Use modal auxiliaries : Order adjectives within sentences according to conventional pattern. Form and use prepositional phrases. Produce complete sentences, recognizing and correcting inappropriate fragments and run-ons. Correctly use frequently confused words.	All lessons apply to this standard	See STARBASE Curriculum Standards

41. [L.5.4] Determine or	Objectives:	STEM Careers: Personal	Personal Investigations
	-		-
clarify the meaning of	- ELA 5.41.1-5 Define multiple-meaning words, strategies,	Investigations	1. The learner will correlate their academic endeavors in
unknown and multiple-	affixes, root, thesaurus, and glossary.		STEM areas to real-world applications in career fields.
	Use sentence-level context as a clue to the meaning of a word		Physics & Chemistry
- Use context clues and	or phrase. Determine the meaning of the new word formed	Chromatography	1. The learner will conclude there are more than 100 known
common, grade-	when a known affix is added to a known word. Use a known		elements that combine in a multitude of ways to produce
appropriate Greek and		Physics & Chemistry:	compounds, which account for all living and non-living
Latin affixes and roots as	5 <b>5</b> 5	What's the Solution	substances.
clues to the meaning of a	print and digital, to determine or clarify the precise meaning		2. The learner will demonstrate that atoms combine to
word (e.g., photograph,	of key words and phrases.		form molecules and molecules formed from different atoms
photosynthesis).			combine to form compounds.
- Consult reference			3. The learner will recognize a substance has characteristics,
materials (e.g., dictionaries,			such as density, viscosity, boiling point, and solubility, all of
glossaries, thesauruses),			which are independent of the amount of the sample.
both print and digital, to			Physics & Chemistry
find the pronunciation and			1. The learner will conclude there are more than 100 known
determine or clarify the			elements that combine in a multitude of ways to produce
precise meaning of key			compounds, which account for all living and non-living
words and phrases.			substances.
·			2. The learner will demonstrate that atoms combine to
			form molecules and molecules formed from different atoms
			combine to form compounds.
			3. The learner will recognize a substance has characteristics,
			such as density, viscosity, boiling point, and solubility, all of
			which are independent of the amount of the sample.
			which are independent of the amount of the sample.
43. [L.5.6] Acquire and use	Objectives:	All lessons apply to this	See STARBASE Curriculum Standards
accurately grade-	- ELA 5.43.16: Acquire and use accurately grade-appropriate		
appropriate general	general academic and domain-specific words and phrases,		
academic and domain-	including spatial and temporal relationships. Use subject-		
specific words and phrases,	related words and phrases acquired through conversations,		
including those that signal	reading and being read to, and resp+A5onding to texts,		
contrast, addition, and	including using frequently B6occurring conjunctions.		
other logical relationships			
(e.g.,however, although,			
nevertheless, similarly,			
moreover, in addition).			