Name: GODWIN School Year: 2023-24			Grading Quarter: 1 Subject: SCIENCE	Week Begini WEEK 1	ning:		
56110	01 1cui. 2023 24		Subject. Science	,			
Monday	NO SCHOOL						
Tuesday	Notes: Materials: classroom, planners	classroom ar Student will b Lesson Over	Objective: Students will be introduced to science 7 classroom and general course topics Student will be introduced to student planner pages Lesson Overview: Roll, seating, materials in room Wrap-up: Student discussion of what was discussed				
Wednesday	Notes: science word search, instructions for log-in on board.	Class will dis word search checkout and Lesson Over discussion or Students will computers. Stinding approwrap up: Stu	Objective: Students will receive school computers, Class will discuss rules and expectations, science word search for students finished with computer checkout and log-in Lesson Overview: Opening: Students will lead discussion on what was learned the previous day. Students will be called out alphabetically to get computers. Students will practice logging in and finding appropriate school websites. Wrap up: Student-led discussion of what was				
Thursday	Notes: Materials; rights/rules/responsibilities worksheet	Objective: Students will understand the similarities and differences between rules, rights and responsibilities and expectations. Lesson Overview: Students will lead discussion on what was learned the previous day. Class discussion on reasons for rules. What are the expectations for children's rights? What are the responsibilities associated with these rights? Do matching worksheet, discuss how class rules relate to rights and responsibilities of young adults. Wrap up: Student-led discussion of what was discussed today			Academic Standards: NONE		
Friday	Notes: Materials, Canvas quiz	Objective: St what was dis Lesson Over what was lea rules, rights a this first weel	udents will demonstrate cussed this week. view: Students will learned the previous day and responsibilities. Downer went for everyone. With was discussed to	te understanding of d discussion on . Review of Class iscussion of how Vrap up: Student-led	Academic Standards: NONE		

	Name: GODWI		Grading Quarter:	Week Beginnin WEEK 2	ıg:
School Year: 2023-24		Subject: SCIENCE 7			
SCIIC	JOI 16a1. 2023-24		Subject. Science /		
Monday	Notes: chess boards	chess pieces car learning and play Lesson Overview	n move. Students will a ving chess v: Students set up ches	understanding of the ways rticulate the reasons behind assboards guided by teacher. rcises. Wrap-up Student-	Academic Standards NONE
				ve and reasons for chess	
	Notes: Chess boards, canvas quiz		nts will demonstrate un quiz and practice exerc	derstanding of basic chess ises	Academic Standards NONE
Tuesday		Lesson Overview piece moves and openings video, I of moves and rea			
\leq	Notes: Canvas pre-test	Objective: Stude topics to be cove	•	e-test knowledge of science	Academic Standards NONE
Wednesday		expect to learn ir up: student-led d		led-discussion on what they Part one of pre-test. Wrap- e things they felt were	
	Notes: Canvas pre-test	Objective: Stude topics to be cove		e-test knowledge of science	Academic Standards NONE
Thursday		now expect to lea Wrap-up: studen	arn in life science this y	led-discussion on what they ear. Part two of pre-test. e of the things they felt were	
Friday		NO SCHOOL			Academic Standards NONE

Name: GODWIN		Grading Quarter:	Week Beginning: WEEK 3					
Scho	ool Year: 2023-24		Subject: SCIENCE 7	,				
Monday		Objective: NO SC	Objective: NO SCHOOL					
1	Notes: Canvas discussion	Objective: Studer Canvas discussion		e ability to participate in	Academic Standards: NONE			
Tuesday			nvas to introduce them	on on personal introduction. selves and respond to				
		Wrap-up: studen	t led discussion on surp	orising facts they learned				
W	Notes: Canvas assignment	Objective: Students will demonstrate their ability to use Canvas to submit work Academic Standards: NONE						
Wednesday		Lesson Overview: Introduction: student-led discussion on use of Canvas last year. Pros and cons. Demonstrate what is available on Canvas. Students submit written Canvas assignment Wrap-up: student led discussion						
Thurs	Notes: Canvas quiz			eir knowledge of Canvas to strate their ability to sue	Academic Standards: NONE			
ursday			v: Introduction: student and instructions on stu	led discussion about Chat dent use of Chatbot.				
		Wrap-up: studen	t led discussion on Cha	at GPT				
П	Notes: Canvas quiz	Objective: Studer presented this we	Academic Standards: NONE					
Friday			v: Introduction: student- ly quiz, chess in free tin	led discussion on weekly ne				

	N.I		Constitute Occasion	Wash Basinsin				
	Nam GODV		Grading Quarter: Week Beginning: WEEK 4					
			1					
Scho	ol Year: 202	3-24	Subject: SCIENCE 7					
Monday	Notes: Restating quiz	when answering Lesson Overview on restating ques	Objective: Students will demonstrate the ability to restate the questions when answering prompts Lesson Overview: short quiz on restating question, discussion and lesson on restating questions, Canvas assignment. Wrap-up: student-led discussion					
Tuesday	Notes: Canvas	when answering Lesson Overview question, Chat G	Objective: Students will demonstrate the ability to restate the questions when answering prompts Lesson Overview: intro: Student-led discussion. Practice restating the question, Chat GPT prompt demonstration. Canvas quiz Wrap-up student-let discussion					
Wednesday	Notes: Canvas lesson, video	Objective: Students will demonstrate the ability to prepare for learning from a video and obtaining information from a video Lesson Overview: intro: Student-let discussion on restating the questions in class. Instruction on learning from a video. Watch video and take notes. Canvas assignment. Wrap-up student-let discussion Student-led discussion on how learning from You-tube videos and be helpful.						
Thursday	Notes: Canvas lesson, Chat GPT	Objective: Students will demonstrate the ability to obtain information from videos. Lesson Overview: intro: Student-led discussion on learning from videos. Review and demonstration of use of Chat GPT to obtain information. Canvas quiz, Canvas discussion Wrap-up student-let discussion on use of Chat GPT and how they feel about the information they learned today.						
Friday	Notes: Friday quiz, Canvas	presented this we Lesson Overview	eek. Grade check. v: intro: Student-led dis	eir understanding of concepts cussion deos and use of Chat GPT	Academic Standards:			

	Name: GODWIN		Grading Quarter:	Week Beginning	g:		
Scho	ool Year: 2023-24	<u> </u>	Subject: SCIENCE 7				
Monday	Notes: Canvas assignment	differences and s Lesson Overview gathering informa	Objective: Students will demonstrate an understanding of the differences and similarities of paraphrasing and plagiarism Lesson Overview: video, lesson on plagiarism. Practice activity of gathering information and paraphrasing that information Wrap-up: student-led discussion on examples of what is/is not plagiarism				
Tuesday	Notes: Canvas quiz	differences and s Lesson Overview Review lesson, C	Objective: Students will demonstrate an understanding of the differences and similarities of paraphrasing and plagiarism Lesson Overview: intro: Student-led discussion on plagiarism. Review lesson, Canvas quiz Wrap-up student-let discussion				
Wednesday	Notes: Canvas assignment	reports Lesson Overview doing reports in tresearch over 2 constants.	Lesson Overview: intro: Student-led discussion on experiences with doing reports in the past. Instructions on research methods, student research over 2 days. Wrap-up student-let discussion on things they learned about their				
Thursday	Notes: Assignment cont. Friday quiz	Objective: Stude Lesson Overview with the research Wrap-up: Weekly	Academic Standards: 7.SL.4				
Friday	Notes:	Objective: NO SO	CHOOL FOR FIRST 1/8 TH		Academic Standards:		

	Name: GODWIN		Grading Quarter: 1	Week Beginnin WEEK 6	g:
Scho	ol Year: 2023-24		Subject: SCIENC	E 7	
Monday	Notes: Labor Day	Labor day,	no school		Academic Standards:
Tuesday	Notes: Student presentations of reports	Objective: chosen ani Lesson Ov	Academic Standards: 7.SL.4 7.SL.5 7.SL.6		
Wednesday	Notes: Finish presentations Begin Logical thinking.	Lesson Ov experience research m	erview: intro: Stude es with doing reports nethods, student res cudent-let discussio	ent-led discussion on sin the past. Instructions on search over 2 days. n on things they learned	Standards: 7.SL.4 7.SL.5 7.SL.6
Thursday	Notes: Logic puzzle packets cont.	Objective: problems Lesson Ov depending	Students will be abl	le to solve simple matrix logic v Matrix logic or logic lesson ength of student	Academic Standards:
Friday	Notes: NEXIS Collation presentation	Objective: Lesson Ov curriculum	erview: Undetermir	ned. NEXIS has their own	Academic Standards:

Name: GODWIN			Grading Quarter: 1	Week Beginning: WEEK 7	
Scho	ol Year: 2023-24		Subject: SCIENCI	E /	
Monday	Notes: Branches of science Canvas assignment	Objective: S branch Lesson Ove Wrap-up: Ca	Academic Standards: U1		
Tuesday	Notes: review branches Canvas quiz	Objective: Saccording to Lesson Ove science Rev Wrap-up stu	Academic Standards: U1		
Wednesday	Notes: patterns Canvas assignment	science	rview: intro: Studer	e different types of patterning in nt-led discussion on patterns	Academic Standards: U1
Thursday	Notes: review patterns types Patterns quiz	world Lesson Ove	rview: intro: Studer th the research so f	nt-led discussion on their	Academic Standards: U1
Friday	Notes: Friday quiz	concepts an work	erview: Student gra	strate knowledge of weekly current grade and missing de checks, missing work check	Academic Standards:

Name: GODWIN School Year: 2023-24			Grading Quarter: 1 Subject: SCIENCE	Week Beginning: WEEK 8	
Monday Tuesday	Canvas assignment Notes: review visual patterns: camouflage Canvas quiz	Classify camouflage types Lesson Overview: video, lesson on camouflage Wrap-up: Canvas written assignment Objective: Students will be able to classify examples of camouflage fro examples in nature Lesson Overview: intro: Student-led discussion on types of camouflage Review lesson, Canvas quiz Wrap-up student-led discussion			Academic Standards: 6.L2U1.13 Cross-cutting concepts: patterns Academic Standards: 6.L2U1.13 Cross-cutting concepts: patterns
Wednesday	Bill Nye video	Objective: S skeleton Lesson Ove Watch Bill N	Academic Standards: Cross- cutting concepts: structure and function		
Thursday	Construct skeleton	Objective: Students will create a skeleton and differentiate between axial and appendicular skeleton Lesson Overview: intro: Student-led discussion on their progress with the research so far. Wrap-up: finish creating skeleton		Academic Standards: Cross- cutting concepts: structure and function	
Friday	Friday quiz	concepts an work	nd understanding of erview: Student grad	strate knowledge of weekly current grade and missing de checks, missing work check	Academic Standards:

Name: GODWIN			Grading Quarter: 1	Week Beginning: WEEK 9	
Scho	ol Year: 2023-24		Subject: SCIENCE	Ē 7	
Monday	Notes: Skeleton Lable paper skeletons	Objective: S bones Lesson Ove Wrap-up: Ca	Academic Standards: Cross- cutting concepts: structure and function		
Tuesday	Notes: review skeletons, models Canvas quiz	Objective: S models Lesson Ove lesson, Can Wrap-up stu	Academic Standards: Cross- cutting concepts: structure and function		
Wednesday	Leaves	Objective: S practice Lesson Ove Watch Bill N	Academic Standards: Cross- cutting concepts: patterns		
Thursday	Notes: review leaves	quiz Lesson Ove	tudents will preserv rview: intro: sort lea nish pressing leaves		Academic Standards: Cross- cutting concepts: structure and function
Friday	Notes: Friday quiz	concepts an work	nd understanding of erview: Student grad	strate knowledge of weekly current grade and missing de checks, missing work check	Academic Standards:

Name: GODWIN			Grading Quarter: 1	Week Beginning: WEEK 10	
Scho	ol Year: 2023-24		Subject: SCIENCI	E 7	
Monday	Notes: Stereoscope Canvas quiz	procedures	on on skeletons	Academic Standards: Cross- cutting concepts: Patterns	
Tuesday	Use stereoscope	items	a stereoscope to observe v parts of the stereoscope s	Academic Standards: patterns	
Wednesday	Otes: Life cycles	cycles		e to order parts of animal life e cycles, sequential patterns	Academic Standards: Cross- cutting concepts: patterns
Thursday	Canvas quiz	canvas quiz		pe life cycles for their animal, any missing work	Academic Standards: Cross- cutting concepts: patterns
Friday	NO SCHOOL	NO SCHOO	OL END OF 9 WEE	KS	Academic Standards:

Name: GODWIN			Grading Quarter: 2	Week Beginning: WEEK 11			
Scho	ol Year: 2023-24		Subject: SCIENC	E 7			
Monday	NO SCHOOL						
Tuesday	Notes: Life cycles	examples of Lesson Over far. Review	Objective: Students will be able to recognize life cycles as examples of sequential patterns Lesson Overview: intro: review types of patterns discussed so ar. Review sequential patterns, give life cycles as example. Life cycle quiz				
Wednesday	Guest speaker: water tables		Objective: Students will learn about local water sources Lesson Overview: Guest speaker				
Thursday		canvas quiz Lesson Overview: intro: Review of Tuesday's assignment, Written work assignment		Academic Standards: Cross- cutting concepts: patterns			
Friday	CAREER DAY	SCHOOL-V	VIDE CAREER DA	Υ	Academic Standards: Explore careers		

Schoo	Name: GODWIN ol Year: 2023-24		Grading Quarter: 2 Subject: SCIENC	Week Beginning: WEEK 12 E 7			
Monday	Notes: Power Point, Cause and effect Canvas quiz	cause and Lesson ove	Objective: Students will be able to differentiate between cause and effect in a sample situation Lesson overview: review pattern types. Cause and effect is the last type. Powerpoint and notes. Canvas quiz				
Tuesday	Notes: none, Canvas written assignment	Objective: S statements. cause and e Lesson Ove written work	Academic Standards: patterns				
Wednesday	Notes: Cause and effect, Habitats Canvas quiz	adaptations Lesson Ove why the ani	develop because of erview: Give examp	les of different animals and ask ney are. Have class logic	Academic Standards: Cross- cutting concepts: patterns 6.12U3.12		
Thursday	Canvas written assignment	animal base Lesson Ove	ed on its adatations	w yesterday's lesson, go over	Academic Standards: Cross- cutting concepts: patterns		
Friday	Friday wrap-up	performance		f-evaluate grade and nts will demonstrate for the week	Academic Standards:		

Name: GODWIN			Grading Quarter: 2	Week Beginning: WEEK 13		
Scho	ol Year: 2023-24		Subject: SCIENC	E 7		
Monday	RED RIBBON WEEK: Objective: students will be able to explain the history of red ribbon week. Students will create a personal Natural High poster			Academic Standards: patterns		
Tuesday	RED RIBBON WEEK: ALCOHOL	when appro	Objective: Students will be able to verbalize ways to say "no" when approached about drinking. Students will understand the sangers associated with drinking			
Wednesday	RED RIBBON WEEK VAPING, SMOKING, MARIJUANA	vaping, huff		e to differentiate between narijuana use. Students will to a fresh air	Academic Standards:	
Thursday	RED RIBBON WEEK SYNTHITIC DRUGS	Objective: S	Students will summa	arize what was learned this week	Academic Standards:	
Friday	RED RIBBON WEEK DEA SPEAKER	Students w topics	rill attend a DEA pre	esentation on Red ribbon week	Academic Standards:	

Name: GODWIN			Grading Quarter: 2	Week Beginning: WEEK 13		
Scho	ol Year: 2023-24		Subject: SCIENC	E 7		
Monday		_	Objective: students will be able to explain the cause/effect seasons behind human skin color variation			
Tuesday	Notes: none. Written Canvas assignment	color variati Lesson Ove	bjective: Students will be able to identify reasons for skin plor variation in humans and animals esson Overview: intro: review yesterday's work. Canvas ritten assignment			
Wednesday	Dependent variables as they relate to cause and effect Canvas quiz	dependent v Lesson Ove	Objective: Students will be able to find independent and lependent variables given a situation lesson Overview: Review cause and effect. Translate cause of independent variable and effect to dependent variable			
Thursday		identify independent, dependent and control variables Lesson Overview: intro: Review yesterday's lesson. Add control variables.		Academic Standards: Cross- cutting concepts: patterns		
Friday	Veteran's day off	Verterans o	day off		Academic Standards:	

School	Name: GODWIN ol Year: 2023-24		Grading Quarter: 2 Subject: SCIENC	Week Beginning: WEEK 14		
30110			-		_	
Monday	canvas quiz	use a line g create both Lesson Ove	Objective: Students will be able to tell when is is appropriate to use a line graph and when to make a bar graph. Students will create both a line and a bar graph Lesson Overview: intro: review of independent and dependent variables. Relate these to graphing, notes, canvas quiz			
Tuesday	assignment, canvas	graph	esson Overview: intro: review graph types, create sample			
Wednesday	Graphing on the computer	line and bar Lesson Ove	Objective: Students will be able to independently create both a ine and bar graph on the computer using Kid's Zone Lesson Overview: Teacher models website use, students create graphs			
Thursday	•	positive, neg Lesson Ove	Objective: Students will be able to interpret a scatter plot to find positive, negative and no correlation Lesson Overview: intro: sample scatter plots and evaluation. Canvas quiz			
Friday		performance		elf-evaluate grade and nts will demonstrate for the week	Academic Standards:	

Name: GODWIN			Grading Quarter: 2	Week Beginning: WEEK 15		
Scho	ol Year: 2023-24		Subject: SCIENC	E 7		
Monday	Scatter plot written assignment and graph creation	Students w correlation	tudents will create a simple scatter plot and evaluate orrelation			
Tuesday	Graphing review and computer creation of scatter plot		Objective: Students will be able to lesson Overview: intro: r			
Wednesday	THANKSGIVING BREAK					
Thursday	THANKSGIVING BREAK					
Friday	THANKSGIVING BREAK					

Name: GODWIN			Grading Quarter: 2	Week Beginning: WEEK 16			
Scho	ol Year: 2023-24		Subject: SCIENC	E 7			
Monday	Notes: Grouping in science Canvas quiz Objective: Students will be able to group objects according to similar characteristics Lesson overview Hands on sorting, notes, quiz				Academic Standards: Patterns ESL #2		
Tuesday	Written assignment	their similar Lesson Ove	Objective: Students will be able to group objects according to heir similaraties .esson Overview: review of notes, hands on sorting #2, written assignment				
Wednesday	Notes: Kingdoms of living things.	Objective: Saccording to characterist Lesson Ove Notes on King-Canvas quiz	Academic Standards: Cross- cutting concepts: patterns				
Thursday	Canvas written assignment	kigdoms. Lesson Overview: intro: Hands-on sorting #4 Review characteristics of the 5 kingdom classification system, written			Academic Standards: Cross- cutting concepts: patterns		
Friday	Friday Wrap-up quiz	material. Students w	rill check grades, o	nowledge of the week's check for missing work, do nd create a relevant graph	Academic Standards:		

Name: GODWIN			Grading Quarter: 2	Week Beginning: WEEK 17			
Schoo	ol Year: 2023-24		Subject: SCIENCI	E 7			
Monday	Notes, practice sorting into Venn Diagrams	Diagrams Lesson ove find similar	Objective: Students will be able to read and create Venn Diagrams Lesson overview: Sorting #5, sort into two groups and find similarities between the two groups Notes, Canvas quiz, math connection				
Tuesday	Using Venn diagrams Written assignment	Objective: S Diagrams Lesson Ove drawing dia	Academic Standards: patterns ELL 7.W.1				
Wednesday	Using Dichotomous keys	key to identi Lesson Ove	Objective: Students will be able to use a simple Dichotomous key to identify items Lesson Overview: Paly 20Q as a class, modeling of using keys, use keys as a class, Canvas quiz				
Thursday	and quiz	Lesson Overview: Substitute today. Watch video and answer questions as they watch video		Academic Standards: Cross- cutting concepts: patterns			
Friday	NEXIS	NEXIS les	son		Academic Standards:		

Name: GODWIN		Grading Quarter: 2	Week Beginning WEEK 18	g:	
Schoo	ol Year: 2023-24		Subject: SCIENC	E 7	
Monday	Writing Dichotomous keys, notes and quiz	Objective: Students will be able to create a simple Dichotomous key to identify objects Lesson Overview: Review using keys. Notes and practice on creating trees leading to keys, Canvas quiz			Science ELL 7.W.1
Tuesday	Writing keys, written assignment	Objective: Stree as a m Lesson Ove sorting into Written ass	Academic Standards: patterns ELL 7.W.1		
Wednesday	Taxonomy of vertebrates	Objective: 9 Orders using Lesson Over vertebrates	Academic Standards: Cross-cutting concepts: patterns		
Thursday	Taxonomy of vertebrates Canvas written assignment	according t	o characteristics	le to classify vertebrates ew classes, written assignment.	Academic Standards: Cross-cutting concepts: patterns communication
Friday	Friday quiz	material. Students v	vill check grades,	knowledge of the week's check for missing work, do and create a relevant graph	Academic Standards: patterns communication

Name: GODWIN School Year: 2023-24			Grading Quarter: 2 Subject: SCIENC	Week Beginning: WEEK 19	
SCHOOL	Ji Fedi. 2023-24		Subject. Scienc	L /	
Monday	Review for mid-term	Students will work on a cloze review assignment over Semester 1 material			
Tuesday	Mid-term test	Objective: Students will demonstrate knowledge of semester 1 material Lesson Overview: testing whole period. Student will have 2 chances to do questions			
Wednesday		FUN DA	¥Υ		
Thursday		WINTER	BREAK		
Friday		WINTER	R BREAK		

	Name: GODWIN		Grading Quarter: 3	Week Beginning: WEEK 20 Jan 9-12	2	
Scho	ol Year: 2023-24		Subject: SCIENC	E 7		
Monday	NO SCHOOL					
Tuesday	Bill Nye introduction to atoms	Objective: Students will be able to identify the parts of an atom Lesson Overview: Review learning from videos, preview questions to watch for on the video. Discuss standardized testing hints.				
Wednesday	Notes on atoms, quiz		bjective: Students will be able to identify the parts of an atom esson Overview: review yesterday's lesson, Powerpoint, otes, quiz			
Thursday	assignment.	atoms	bjective: Students will be able to identify the parts of an oms esson Overview: intro: Review of notes, written assignment			
Friday	Friday quiz, grade and progress check for this semester and overall course	Friday quiz	, check grades, m	ake graph	Academic Standards:	

Name: GODWIN			Grading Quarter: 3	Week Beginning: WEEK 21 Jan 16-19	9
Schoo	ol Year: 2023-24		Subject: SCIENCE	Ē 7	
Monday	NO SCHOOL				
Tuesday	Notes: Elements and periodic table	Objective: Students will be able to read and interpret the periodic table. Students will memorize the 10 most abundant elements on earth. Lesson Overview: intro: review of atoms from last week. Use periodic table in planner to mark atoms to memorize Power Point, periodic table, quiz			
Wednesday	Elements and the periodic table written work	Objective: S knowledge o Lesson Ove	Academic Standards: Atoms P1: 6.P1U1.3 Written responses ELL		
Thursday		Objective: S Lesson Ove crossword p	rview: intro: Review	v, drawing atoms worksheet and	Academic Standards:
Friday	Elements quiz	Students w symbols	vill demonstrate kno	owledge of element names and	Academic Standards: Atoms P1: 6.P1U1.3 Written responses ELL

Name: GODWIN		Grading Quarter: 3	Week Beginnir WEEK 22 Jan 23	•	
Scho	ol Year: 2023-24		Subject: SCIENC	E 7	
Monday	Compounds and molecules				Academic Standards: Compounds: Written responses ELL
Tuesday	Molecules	Objective: demonstra Lesson Ov	Academic Standards: Compounds: Written responses ELL		
Wednesday	Intro to Photosynthesis	Objective: formula for Lesson Ov	Academic Standards: Photosynthesis Written responses ELL		
Thursday	Photosynthesis, Canvas written assignment	formula for photosynthesis Lesson Overview: intro: Review of notes, written work			Academic Standards: Photosynthesis Written responses ELL
Friday	Friday quiz	Friday quiz and progress check			Academic Standards: Photosynthesis Written responses ELL

Name: GODWIN			Grading Quarter: 3	Week Beginning WEEK 23 Jan 29-F			
Scho	ol Year: 2023-24		Subject: SCIENC	E 7			
Monday	Notes, quiz Intro to cellular respiration, notes	cellular resp	Objective: Students will be able to interpret the formula for cellular respiration, Lesson Overview: intro: Powerpoint, notes				
Tuesday	Review and Written assignment	respiration	Objective: Students will be able to relate photosynthesis and respiration and the relationship between plants and animals Lesson Overview: intro: review notes, written work				
Wednesday	Food webs, niches Notes, quiz	describe re	lationships within for erview: review phot	e to follow a food web and bod webs and food chains osynthesis/respiration cycles. In move on to food webs, quiz	Academic Standards: Food webs Written responses ELL		
Thursday	Canvas written assignment	describe re Lesson Ove	lationships within fo	e to follow a food web and bod webs and food chains w food chains/webs. Written eports.	Academic Standards: Food webs Written responses ELL		
Friday	Friday quiz and progress check	Friday qui	Friday quiz, progress check, weekly graph				

Name: GODWIN		Grading Quarter: 3	Week Beginning: WEEK 24 Feb 5-9		
School Year: 2023-24			Subject: SCIENC	E 7	
Monday	Notes, quiz	of the diges Lesson Ove	tive system	e to label and describe the parts webs and respiration formula,	Academic Standards: 7.L1U1.9 7.L1U1.11 Written responses ELL
Tuesday	Review and Written assignment	of the diges	tive system	e to label and describe the parts v notes, written assignment.	Academic Standards: 7.L1U1.9 7.L1U1.11 Written responses ELL
Wednesday	Review for benchmark		oms, calories, food	e to describe the relationship webs and life	Academic Standards:
Thursday	Begin benchmark P/T conferences	Objective: S	Short day. Benchma	ark part 1	Academic Standards:
Friday	Finish benchmark P/T conferences	Short day, b	enchmark part 2		Academic Standards:

Name: GODWIN		Grading Quarter: 3	Week Beginning: WEEK 25 Feb 12-1	.5	
Schoo	School Year: 2023-24 Subject: SCIENCE 7			E 7	
Monday	respiratory system	respiratory s	system and explain	e to label the parts of the the functions of each organ s, introduce parts, power point,	Academic Standards: 7.L1U1.9 7.L1U1.11 Written responses ELL
Tuesday		circulatory s	system and explain	e to to label the parts of the the functions of each organ models, introduce parts, power	Academic Standards: 7.L1U1.9 7.L1U1.11 Written responses ELL
Wednesday	Muscular system	muscular sy organ	stem system and e	e to to label the parts of the explain the functions of each models, introduce parts, power	Academic Standards: 7.L1U1.9 7.L1U1.11 Written responses ELL
Thursday	·	Nervous sys Lesson Ove	stem and explain th	e to to label the parts of the e functions of each organ v intro: body models, introduce	Academic Standards: 7.L1U1.9 7.L1U1.11 Written responses ELL
Friday	NO SCHOOL				,

	Name: GODWIN		Grading Quarter: 3	Week Beginning: WEEK 26 Feb 20-2	.3
School Year: 2023-24			Subject: SCIENC	E 7	
Monday	NO SCHOOL				
Tuesday		a fetal pig		a paper model of the organs of of fetal pig organs. Begin mode	Academic Standards: 7.L1U1.9 7.L1U1.11 Written responses ELL
Wednesday		Objective: Students will create a paper model of the organs of a fetal pig Lesson Overview: continue models			Academic Standards: 7.L1U1.9 7.L1U1.11 Written responses ELL
Thursday	Work on model	Finish mod	els		Academic Standards: 7.1101.9 7.1101.11 Written responses ELL
Friday	Friday quiz and progress check	Friday quiz	z, progress check, v	weekly graph	Academic Standards:

Name: GODWIN		Grading Quarter: 3	Week Beginning: WEEK 27 Feb 26-March 1		
School Year: 2023-24		Subject: SCIENC	E 7		
Monday	Notes, quiz	qualification	Students will be able is that define living erview: intro:notes,		Academic Standards: Living things Written responses ELL
Tuesday	Review and Written assignment	that define I	iving things	e to explain the qulaifications v notes, written work	Academic Standards: Living things Written responses ELL
Wednesday	Microscopes Notes, quiz	Objective: Students will be able label the parts of, and use a compound microscope Lesson Overview: go over parts of the microscope, magnification math		Academic Standards:	
Thursday	Canvas written assignment	Objective: S Lesson Ove	Students will erview: intro: Reviev	N	Academic Standards:
Friday	Friday quiz and progress check	Friday quiz	z, progress check, v	weekly graph	Academic Standards:

Name: GODWIN		Grading Quarter: 3	Week Beginning: WEEK 28 March 4-	8	
Schoo	School Year: 2023-24		Subject: SCIENCI	E 7	
Monday	Cells Notes, quiz Objective: Students will be able to draw and identify part of an basic cell, quiz. Lesson Overview: intro:			Academic Standards: L1: 7.L1U1.8 7.L1U1.9	
ý					Written responses ELL
	Review and Written		Students will be able vritten assignment	e to draw and identify part of a	Academic Standards:
Tuesday	assignment	Lesson Overview: intro:			<u>L1:</u> 7.L1U1.8 7.L1U1.9
~					Written responses ELL
We	Notes, quiz	Objective: Sof a plant ce		e to draw and identify the parts	Academic Standards:
Wednesday		Lesson Ove	erview:		7.L1U1.8 7.L1U1.9
lay					Written <u>responses</u> <u>ELL</u>
	Canvas written assignment	Objective: Sanimal cell	Students will create	a drawing or model of a plant or	Standards:
Thursday		Lesson Ove of cell mode		v cell parts. Introduce objective	L1: 7.L1U1.8 7.L1U1.9 Written responses ELL
П	EUN DAV				
Friday					

SPRING BREAK

SCOPE AND SEQUENCE: Science 7, BRJHS

SEMESTER ONE: THE BIG PICTURE

This quarter introduces the main concepts for 7th grade life science. Patterning is stressed and interwoven into each Cause-and-effect. Course will utilize the 5E model of instruction: Engage, Explore, Explain, Elaborate, Explain.

Cause-and	d-effect. Course will utilize the 3L fi	nodel of ilistraction. Eligage	, explore, explain, claborate, explain.
Week	Concept(s)	Az State Science	Crosscutting concepts and b
		Standards ¹	information ²
1-2	Introduction to learning in Canvas, class pretest, logical thinking		
3-4	Using Canvas and navigating online learning platforms, notetaking, answering questions, learning styles, avoiding plagiarism	7.W.7 Conduct short research projects to answer a question, drawing on several sources and generating additional related, focused questions for further research and investigation. 7.W.8 Gather relevant information from multiple	
5-6	Research project, self-guided research, creating presentations, presenting to class. Intro to ecosystems, food chain, observation skills	print and digital sources, using search terms effectively; assess the credibility and accuracy of each source; and quote or paraphrase the data and conclusions of others while avoiding plagiarism and following a standard format for citation. 7.W.9 Draw evidence from literary or informational texts to support analysis, reflection, and research. 7.SL.4 Present claims and findings, emphasizing salient points in a focused, coherent manner with pertinent descriptions, appropriate vocabulary, facts, details, and examples; use appropriate eye contact, adequate	Interdependent organisms living together in particular environ ecosystem. In a stable ecosystem there are producers of food (and decomposers, (bacteria and fungi which feed on waste pro

¹ Arizona State Science Standards, https://www.azed.gov/standards-practices/k-12standards/standards-science

² Arizona State Science Standards, https://www.azed.gov/standards-practices/k-12standards/standards-science

7-8	What is science, patterns overview, visual pattering in	volume, and clear pronunciation. 7.SL.5 Include multimedia components and visual displays in presentations to clarify claims and findings and emphasize salient points. U1: Scientists explain phenomena using evidence obtained from observations	The crosscutting concepts identified in <i>A Framework for K-12 Sc</i> o patterns structure and function systems and system models
	science: camouflage, skeletons	and or scientific investigations. Evidence may lead to developing models and or theories to make sense of phenomena. As new evidence is discovered, models and theories can be revised.	
9-10	Repeating patterns: collecting leaves, using a stereoscope Sequential patterns: life cycles		The crosscutting concepts identified in A Framework for K-12 Sc patterns structure and function systems and system models
11-12	Cause and effect patterns: life cycles and growth, adapting to habitats, skin color, variables	Develop and use models to demonstrate the interdependence of organisms and their environment including biotic and abiotic factors.	The crosscutting concepts identified in A Framework for K-12 Sc patterns cause and effect structure and function systems and system models stability and change Interdependent organisms living together in particular environs ecosystem. In a stable ecosystem there are producers of food (
13-14	Grouping patterns: food webs, food chains and niches, Venn diagrams, classifying living things	P4: The total amount of energy in a closed system is always the same but can be transferred from one energy store to another during an event. 6.L2U3.12Engage in argument from evidence to support a claim about the factors that cause species to change and how humans can impact those factors. 6.L2U1.13Develop and use models to demonstrate the interdependence of organisms and their	and decomposers, (bacteria and fungi which feed on waste producers produce materials that help plants to grow, so the are constantly re-used. At the same time, energy resources pass food is used by organisms for life processes some energy is diss in the ecosystem by radiation from the Sun being used to produce are located in the chromosomes of cells, with each chrorovariants of each of many distinct genes. Each distinct gene chief specific protein, which in turn affects the traits of the individual from the actions of proteins that control the production of the producers (generally plants and other organisms that engage in and decomposers as the three groups interact—primarily for fo Transfers of matter into and out of the physical environment occample, when molecules from food react with oxygen capture carbon dioxide and water thus produced are transferred back to ultimately so are waste products, such as fecal material. Decom dead plant or animal matter back to the soil in terrestrial environ aquatic environments. The atoms that make up the organisms is repeatedly between the living and nonliving parts of the ecosyst In any given ecosystem there is competition among species for

environment including biotic

and abiotic factors.

materials they need to live. The persistence of an ecosyste

availability in the environment of these energy resources and populations of organisms are dependent on their environment

		living things and with nonliving factors. Growth of organisms limited by access to resources. In any ecosystem, organisms requirements for food, water, oxygen, or other resources ma limited resources, access to which consequently constrains t Similarly, predatory interactions may reduce the number of populations of organisms. Mutually beneficial interactions, interdependent that each organism requires the other for survi in which multiple species of different types are each able to r stable web of life. Ecosystems are dynamic in nature; their cha Disruptions to any physical or biological component of an ecosy its populations. 4 (p. 155)
15-16	Demonstrating patterning with graphs: bar, line and scatter plot, creating graphs in the computer, interpreting graphs	The crosscutting concepts identified in A Framework for K-12 Sc
17-18	Using grouping for identification and classification: dichotomous keys QUARTER ONE BENCHMARK TEST	The crosscutting concepts identified in A Framework for K-12 Sc

SEMESTER TWO: THE DETAILS

This quarter introduces the details, "how", of life science. Cause and effect patterning is stressed and interwoven int

Week Concept(s) Standard(s) Crosscutting concepts and

week	Concept(s)	Standard(S)	crosscutting concepts an
			information
1-2	Introduction to atoms, molecules and compounds, chemistry of life: photosynthesis and respiration	P1: All matter in the Universe is made of very small particles. 6.P1U1.3 Develop and use models to represent that matter is made of smaller particles called atoms 6.L2U1.14 <u>Construct a model</u> that shows the cycling of matter and flow of energy in ecosystems.	The crosscutting concepts identified in A Framework for patterns energy and matter If a substance could be divided into smaller and smaller made of very, very small particles, smaller than can be so materials, anywhere in the universe, living and non-living number of basic 'building blocks' called atoms, of which living. The proportion of different materials are because.
3-4	Chemistry of food, internal organs, body systems	8.L2U1.12 Construct an explanation for how some plant cells convert light energy into food energy. 8.P1U1.1 Develop and use a model to demonstrate that atoms and molecules can be combined or rearranged in chemical reactions to form new compounds with the total number of each type of atom conserved. L2: Organisms require a supply of energy and materials for which	kinds. The properties of different materials can be explain the atoms and groups of atoms of which they are made All materials, anywhere in the universe, living and non-linumbers of basic 'building blocks' called atoms, of which kinds. Substances made of only one kind of atom are call different elements can combine together to form a very chemical reaction involves a rearrangement of the atom form new substances, while the total amount of matter process, the atoms that make up the original substances molecules, and these new substances have different pro reactants. The total number of each type of atom is consinot change. Some chemical reactions release energy, other in most cases, the energy needed for life is ultimately dephotosynthesis (although in some ecologically importan reactions involving inorganic chemicals in the absence of

		they often depend on, or compete with, other organisms. 6.L2U1.14 Construct a model that shows the cycling of matter and flow of energy in ecosystems. 7.L1U1.9 Develop and use a model to explain how cells, tissues, and organ systems maintain life (animals). 7.L1U1.11Construct an explanation for how organisms maintain internal stability and evaluate the effect of the external factors on organisms' internal stability.	Plants, algae (including phytoplankton), and other energy sunlight, water and carbon dioxide to facilitate photosynt forms plant matter, releases oxygen, and maintains plant
5-6	Using a microscope, cells, single celled organisms, plant/animal cell	L1: Organisms are organized on a cellular basis and have a finite life span. 7.L1U1.8 Obtain, evaluate, and communicate information to provide evidence that all living things are made of cells, cells come from existing cells, and cells are the basic structural and functional unit of all living things. 7.L1U1.9 Construct an explanation to demonstrate the relationship between major cell structures and cell functions (plant and animal).	The crosscutting concepts identified in A Framework for I patterns structure and function systems and system models cale, proportion, and quantity All living organisms are made of one or more cells, which microscope. All the basic processes of life are the results Cells divide to replace aging cells and to make more cells Food is the energy source they need in order to carry out Some cells in multicellular organisms, as well as carrying do, are specialized; for example, muscle, blood and nerve functions within the organism. Cells are often aggregate organs, and organs into organ systems. In the human bog functions as respiration, digestion, elimination of waste a circulatory system takes material needed by cells to all passoluble waste to the urinary system. Stem cells, which are repairing tissues by being programmed for different funct certain conditions. Both single cell and multi-cellular orgamaintain temperature and acidity within certain limits the survive. (P. 26) Life is the quality that distinguishes living the from nonliving objects or those that have died. While as difficult to capture, all living things - that is to say all orga common aspects of their structure and functioning. (P. 143) organized and built on a hierarchical structure, with each for the next, from the chemical foundation of elements a of individual organisms to species and populations living a ecosystems. Organisms range in composition from a sing microorganisms) to multicellular organisms, in which difficults work together to form systems of tissues and org respiratory, nervous, musculoskeletal), that are specialize Within cells, special structures are responsible for par membrane forms the boundary that controls what ento (Boundary: At this grade level, only a few major cell structureduced.) (P. 144) Organisms respond to stimuli from the maintain their internal environment through homeostasi
7-8	Cell division, meiosis and mitosis, DNA	L3: Genetic information is passed down from one generation of organisms to another.	The crosscutting concepts identified in A Framework for F patterns cause and effect
9-10	Reproduction in living things, inheritance, genetics	8.L3U1.9 Construct an explanation of how genetic variations occur in offspring through the inheritance of traits or through mutations. 8.L3U1.9 Communicate how advancements in technology have furthered the field of genetic research and use evidence to support an argument about the positive and negative effects of genetic research on human lives.	 structure and function systems and system models stability and change Genes are located in the chromosomes of cells, with each two variants of each of many distinct genes. Each distinct production of a specific protein, which in turn affects the human skin color results from the actions of proteins that pigment melanin). Changes (mutations) to genes can result which can affect the structures and functions of the organ Sexual reproduction provides for transmission of genetic through egg and sperm cells. These cells, which contain contains a parent's chromosome pair, unite to form a new individual

			in surviving and reproducing in their environment. This is leads to the predominance of certain traits in a populatio others.
11-12	Change over time, fossil evidence of change, geologic time, natural selection	6.L2U3.11Engage in argument from evidence to support a claim about the factors that cause species to change and how humans can impact those factors. 8.L4U1.11Develop and use a model to explain how natural selection may lead to increases and decreases of specific traits in populations over time.	The crosscutting concepts identified in A Framework for I patterns cause and effect structure and function systems and system models stability and change Genetic variations among individuals in a population give in surviving and reproducing in their environment. This is leads to the predominance of certain traits in a populatio others. In artificial selection, humans have the capacity t characteristics of organisms by selective breeding. One catraits determined by genes, which are then passed on to
13-14	Evolution by natural selection	L4: The unity and diversity of organisms, living and extinct, is the result of evolution. 8.L4U1.12 Gather and communicate evidence on how the process of natural selection provides an explanation of how new species can evolve.	natural selection acting over generations is one importan change over time in response to changes in environment support successful survival and reproduction in the new ecommon; those that do not become less common. Thus, population changes. In separated populations with difference be large enough that the populations, provided they rem reproductive isolation), evolve to become separate specie wide range of existing life forms that have adapted to the from terrestrial to marine ecosystems. Biodiversity includ species, in addition to species variation in different habitate forests, grasslands, wetlands). Changes in biodiversity car such as food, energy, and medicines, as well as ecosystem on—for example, water purification and recycling. 4 (p. 167) to obtain the water, light, minerals and space they need to particular locations characterized by climatic, geological a 27) The sorting and recombining of genetic material when formed and then fuse results in an immense variety of potential for natural selection as a result of some var better adapted to certain environmental conditions. 2 (p. 24)
15-16	Man's influence on nature: artificial selection, changes in environments Research project: how we can help	U2: The knowledge produced by science is used in engineering and technologies to solve problems and/or create products. U3: Applications of science often have both positive and negative ethical, social, economic, and/or political implications. 6.L2U3.11Use evidence to construct an argument regarding the impact of human activities on the environment and how they positively and negatively affect the competition for energy and resources in ecosystems.	The crosscutting concepts identified in A Framework for I patterns cause and effect structure and function systems and system models stability and change scale, proportion, and quantity Newly introduced species can damage the balance of an activities have significantly altered the biosphere, sometin natural habitats and causing the extinction of many other environments can have different impacts (negative and pthings. Typically, as human populations and per-capita co increase, so do the negative impacts on Earth unless the ainvolved are engineered otherwise. 4 (p. 196) Human activity certain plants and animals changes an ecosystem. 2 (p. 27) In artificial selection, humans have the capacity to influer organisms by selective breeding. One can choose desired

possess one instance of each parent's chromosome pair pair). Variations of **inherited traits** between parent and of differences that result from the subset of chromosomes or (more rarely) from mutations. (Boundary: The stress had transmission in reproduction, not the mechanism.) $\frac{d}{d}$ (pp. 15 organisms, each parent contributes half of the genes acq offspring. Individuals have two of each chromosome and gene, one acquired from each parent. These versions ma from each other. In addition to variations that arise from information can be altered because of mutations. Though changes to the structure and function of proteins. Some harmful, and some neutral to the organism. $\frac{d}{d}$ (p. 160) Genetic variations among individuals in a population give

		genes, which are then passed on to offspring. 4 (p. 164) The genetic material when egg and sperm cells are formed an immense variety of possible combinations of genes, and i inherited from one generation to another. These provide selection as a result of some variations making organisms environmental conditions. 2 (p. 28)
17-18	Course wrap-up and final exam	

Arizona State Science Standards, https://www.azed.gov/standards-practices/k-12standards/standards-science

By the end of seventh grade, students will explore how energy is transferred in environmental processes. Students investigate and explain the structure and function of cells and understand how genetic information is passed down to produce variation among the populations. Students will describe how stability and change and the process of cause and effect influence changes in the natural world. Student investigations focus on collecting and making sense of observational data and measurements using the science and engineering practices: ask questions and define problems, develop and use models, plan and carry out investigations, analyze and interpret data, use mathematics and computational thinking, construct explanations and design solutions, engage in argument from evidence, and obtain, evaluate, and communicate information. While individual lessons may include connections to any of the crosscutting concepts, the standards in seventh grade focus on helping students understand phenomena though patterns, cause and effect, scale, proportion, and quantity; systems and system models; energy and matter structure and function and stability and change. ³

Crosscutting Concepts

Crosscutting concepts⁴ cross boundaries between science disciplines and provide an organizational framework to connect knowledge from various disciplines into a coherent and scientifically based view of the world. They build bridges between science and other disciplines and connect core ideas and practices throughout the fields of science and engineering. Their purpose is to provide a lens to help students deepen their understanding of the core ideas as they make sense of phenomena in the natural and designed worlds. The crosscutting concepts identified in *A Framework for K-12 Science Education* are: patterns, cause and effect, structure and function, systems and system models, stability and change, scale, proportion, and quantity, energy and matter

ELL STANDARDS

Grade 7 Writing 7.

³ Arizona State Science Standards, https://www.azed.gov/standards-practices/k-12standards/standards-science

W.1 Write arguments to support claims with clear reasons and relevant evidence. a. Introduce claim(s), acknowledge alternate or opposing claims, and organize the reasons and evidence logically. b. Support claim(s) with logical reasoning and relevant evidence, using accurate, credible sources and demonstrating an understanding of the topic or text. c. Use words, phrases, and clauses to create cohesion and clarify the relationships among claim(s), reasons, and evidence. d. Establish and maintain a formal style. e. Provide a concluding statement or section that follows from and supports the argument presented.