## Grade 6 Physical Science

Assessment	Learning Objectives/Concepts	Student Performance Objectives	Resources/Activities	Assessments	Terminology
3.2.6.B6	All matter is made up of particles	Students will be able to recognize, apply,	FOSS		mass
	that are far too small to see	and describe appropriate methods of	MIXTURES		
	directly through a microscope.	measurement.	AND		system
			SOLUTIONS		
3.2.6.A1	Volume and mass can be	Students will be able to identify and	(Mandatory)		elements
	differentiated.	describe mixtures and solutions.			
			Unit E Ch 4 Lesson 1	Chapter 4 Test	reflection
3.2.6.A1	Equal volumes of different	Students will be able to describe, apply,	E106-107 Investigate		
	substances usually have different	compare, and contrast physical and	E110 Investigation Challenge	Standardized Test Prep	refraction
	masses.	chemical changes.		p. 107	
				p. 108	solution
3.2.6.A2	Pure substances and mixtures can	Students will be able to apply operational	Unit E Ch 4 Lesson 2	p. 109	
	be compared and contrasted.	definitions to determine relative	E114-115 Investigate	p. 110	mixture
		concentrations of solutions.	District Materials: "Bottle Organ", "Mysterious		
3.2.6.A2	When two or more substances		Magic", "The Science of Sound", "Making a		molecule
	are combined, they may form a	Students will be able to use group problem	Shoe-Box Guitar"		
	mixture and maintain their	solving techniques to plan an investigation.			wavelength
	original properties or they may		Unit E Ch 4 Lesson 3		
	react chemically to form a new	Students will be able to use scientific	E130 Reading Mini-Lesson - Predict Outcomes		periodic
	substance with new properties.	thinking processes to conduct	E133 Activities for Home and School, "Reflection		table
		investigations and defend explanations	and Refraction"		
3.2.6.A3	Mass is conserved in a closed system.	through observation, comparing,	District Materials: "Adding Colors: An Optical		substance
		organizing, and communicating.	Experiment"		
3.2.6.A4	Physical and chemical changes may				electromagnetic
	be compared and contrasted.	Students will be able to use appropriate			energy
		tools during investigations to achieve an			
3.2.6.A5	We can use properties of matter to	answer.			chemical energy
	separate one substance from				
	another.	Students will be able to compare and			pitch
		contrast saturated versus unsaturated			
3.2.7.A1	Elements, compounds, and mixtures	solutions.			
	can be differentiated.				
3.2.7.A1	Compounds may only be broken	Students will be able to apply			
	down into simpler types of	connections through a process of			
	matter (elements) by chemical	evaporation, saturation, concentration,			
	means.	and reactions.			
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# Grade 6 Physical Science

Assessment	1	•	Physical Science	•	I
Strand	Learning Objectives/Concepts	Student Performance Objectives	Resources/Activities	Assessments	Terminology
3.2.7.A2	Atoms are the basic building blockes	Students will be able to observe and			
	of matter and elements are	describe, through use of a variety of			
	composed of one type of atom.	senses, the physical properties of matter.			
3.2.7.B2	Energy appears in different forms	Students will be able to identify, compare,			
3.2.5.B5	(sound and light) and can be	and contrast the parts of a wave.			
	transformed through a system or transferred from one system to	Students will be able to describe how			
	another.	waves carry energy and compare and			
	unother.	contrast wave types.			
CC.3.5.6-8.A	Scientists cite textual evidence to				
	support analysis of what the text says	Students will be able to develop and apply			
	as well as inferences and/or	all parts of the scientific method			
	generalizations drawn from the text.	beginning with an investigable question.			
CC.3.5.6-8.J	Sceintists read and comprehend				
	science and technical texts, reading				
	independently and proficiently.				
CC.3.5.6-8.G	Scientists include multimedia				
	components and visual displays				
	in presentations to clarify				
	technical information.				
	Using appropriate tools and				
	technologies to gather, analyze, and				
	interpret data enhances accuracy				
	and allows scientists to analyze and				
	quantify results of investigations.				
CC.3.5.6-8.H	Distinguish among facts and				
	reasoned judgment based on research				
	findings ans speculation in a text.				
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# Grade 6 Physical Science

Assessment Strand	Learning Objectives/Concepts	Student Performance Objectives	Resources/Activities	Assessments	Terminology
ou unu		Health Reso	urces/Activities	•	
10.1.4	A healthy lifestyle and healthy	l leatif Keso	Science Text R8-9; HWB 1-4	1	
	environment are interdependent.		Science Text R8-9, HWB 1-4		
10.1.C 10.1.D	environment are interdependent.		Science Text R14-15		
	Our family, close friends, education		HWB 13-14		
	and other factors such as finance are		1W 13 14		
	important in determining how we grow		Science Text R16-17		
	and develop from small children to		HWB15-16		
	the teenage years.				
	Your safety and health are influenced				
	by how personal decisions are made.				
			Recommended Time Frame: 53-	-60 days	

# Grade 6 Earth Science

Assessment Strand	Learning Goals/Concepts	Student Performance Objectives	Resources/Activities	Assessments	Terminology
	The rhythms of Earth are caused	Students will be able to compare and	Unit D Ch 3 Lesson 1	Chapter 3 Test	atmosphere
3.3.5.B1	by three celestial motions: Earth's	contrast patterns in celestial movement.	D76-77 Investigate		
	rotation, revolution around the		District Materials: "An Out of This World Solar	Standardized	axis
	sun, and the moon's revolution	Students will be able to predict and	System project"	Test prep	
	around Earth.	describe the systems/patterns of		p.75	ellipse
		planetary movement (including the moon).	Unit D Ch 3 Lesson 2	p.76	
3.3.5.B1	Earth's rotation around its tilted		D84-85 Investigate	p.77	model
	axis cause day and night.	Students will be able to identify parts of the	D89 Reading Mini-Lesson - Cause and Effect	p.78	
		solar system and recognize how far stars		p.79	orbit
3.3.6.B1	The tilt of Earth's axis and its	are from Earth.	Unit D Ch 3 Lesson 3	p.80	
	revolution around the sun cause		D93 Process Skill Tip - Gather and Interpret Data		phases
	uneven heating of Earth which in turn	Students will be able to predict seasonal	D97 Reading Mini-Lesson - Compare and Contrast		
	causes the seasons and weather	changes based on planetary movement			planetary system
	patterns.	and relationship to the sun.	Unit D Ch 3 Lesson 4		
			D109 "Spinning Planets", "Planets on Other		revolution
3.3.6.B1	Size, composition, and surface	Students will be able to compare and	Planets"		
	features of the planets and the objects	contrast Earth's planetary features to other	District Materials: "Project 88: Wane, Wane,		rotation
	orbiting them can be compared and	planets in our solar system.	Go Away"		
	contrasted.				season
		Studentsw ill be able to illustrate Earth's	District Materials: "Gravity"		
3.3.6.B2	We can use models to demonstrate	seasons, weather patterns, and moon			
	Earth's seasons and weather	phases in relation to orbit.			
	patterns.				
3.3.6.B2	We can use models to demonstrate				
	that the phases of the moon are a				
	result of its orbit around Earth.				
CC 3 5 6 9 P	Scientists determine the central ideas				
СС.3.3.0-8.В	or conclusions of a text and provide				
	an accurate summary of the text				
	distict from prior knowledge and				
	opinions.				
	opinions.				
CC.3.5.6-8.C	Scientists precisely follow multistep				
	procedures when carrying out				
	experiments, taking measurements,				
	or performing technical tasks.				

## Grade 6 Earth Science

Assessment Strand	Learning Goals/Concepts	Student Performance Objectives	Resources/Activities	Assessments	Terminology
	Determine meanings of symbols and				
	key terms as they are used in specific				
	scientific or technical context.				
CC.1.4.6.V	Scientists conduct short research				
	projects to answer a question				
	refocusing on inquiry when				
	appropriate.				
CC.1.4.6.W	Scientists gather relevant information				
	from multiple sources, quote and				
	paraphrase the data and conclusions				
	of others while avoiding plagiarism				
	and providing basic bibliographic				
	information for sources.				
	Scientific descriptions, explanations,				
	and models use evidence, have				
	logically consistent arguments, and				
	are based on scientific principles,				
	models, and theories.				

# Grade 6 Earth Science

Assessment Strand	Learning Goals/Concepts	Student Performance Objectives	Resources/Activities	Assessments	Terminology
		Health Reso	urces/Activities		
10.1.A	Your well-being is linked to	1			
10.1.B	responsible healthy habits.		Science Text R18-19		
10.1.C			HWB17-18		
10.1 D	The way our multiple body systems				
10.1.E	function determines our level of		Science Text R20-21		
10.2.A	health.		HWB19-20		
10.2.D					
10.3.A	Many factors such as peers, body		Science Text R26-27		
5.3.C.G	image, and stress are factors that		HWB27-29		
	influence teens' drug use.				
			Science Text R34-35		
	Good choices and actions (safe		HWB36-38		
	practices) need to be applied during		Recommended Time Frame: 17	-21 davs	1
	individual physical activity settings.				1
	There are appropriate responses you				
	can use in an emegency.				
	There are good choices and actions				
	(safe practice strategies) you can use				
	to manage conflict and violence.				
	to manage commet and violence.				
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## Grade 6 Life Science

Assessment Strand	Learning Goals/Concepts	Student Performance Objectives	Resources/Activities	Assessments	Terminology
3.1.6.A4	All living things are made up of	Students will be able to illustrate and	Unit A Ch 1 Lesson 1	Chapter 1 Test	asexual
3.1.7.A5	smaller units called cells; the cell is	identify the structures and functions of	A4-5 Investigate	Standardized Test Prep	reproduction
	the basic structural and functional	plant and animal cells and organelles.	District Materials: "Jello 3-D Animal Cell Craft"	p.1	
	unit of living things.			p.2	DNA
		Students will be able to compare and	Unit A Ch 1 Lesson 2	p.3	
3.1.5.A5	There are defining structures of	contrast the structure of plant and	A20 Investigation Challenge		genetics
	cells for both plants and animals.	animal cells.	District Materials: "Easter Egg Genetics"	District Materials:	
				"Jelly Genes Lab"	genetic
3.1.6.A4	Some organisms are made up of	Students will be able to compare and	Unit A Ch 1 Lesson 3		engineering
3.1.6.A6	only one cell; some are many-celled.	contrast mitosis and meiosis.	A28 Science Ideas and Process Skills		
			A30 Investigation Challenge		meiosis
3.1.6.A5	Plants and animals have basic	Students will be able to recognize that	A35 Activities for Home or School		
	structures that contribute to their	plant and animal traits come from	District Materials: "Moss Experiment",		mitosis
	ability to make or find food and	parental traits.	"Inherited Traits", "Comparing Inherited Human		
	reproduce.		Traits"		multicellular
		Students will be able to identify and	Project Learning Tree: p. 34-36 "Picture This!"		
3.1.6.A2	Photosynthesis uses energy from the	describe the characteristics of the five			photosynthesis
	sun to produce food for plants and is	kingdoms of living things.	Unit A Ch 2 Lesson 1	Chapter 2 Test	
	transferred within a food chain.		A40-41 Investigate	Performance Assessment:	sexual
		Students will be able to apply a	A41 Process Skill Tip - Classify	AG13-14 "A Dichotomous	reproduction
3.1.6.A8	Most cells are visible only through	dichotomus key to identify the species	A46 Reading Mini-Lesson - Summarize/Paraphrase	Key"	
	a microscope.	of an organism.	A48 Investigation Challenge	,	species
3.1.6.A1	Characteristics in plants, animals,	Students will be able to describe and list	Unit A Ch 2 Lesson 2		unicellular
	fungi, bacteria, and protists can be	how plants grow from seeds to adults.	A50-51 Investigate		
	compared and contrasted.		A51 Process Skill Tip - Gather and Record Data		dominant traits
		Students will be able to identify, compare	A55 Reading Mini-Lesson - Fact/Opinion		
3.1.7.B1	The gene is the basic unit of	and contrast different plant types, their			recessive traits
	inheritance; genetic instructions	needs, and their structures to thrive.			
	influence inherited traits.				
3.1.5.B1	Inherited and acquired characteristics	Students will be able to describe plant	A56 Investigation Challenge		
	in plants and animals can be	responses to different stimuli.	A61 "Sorting Pasta"		
	compared and contrasted.		District Materials: "Chaos Within the Living World"		
				1.00 /	
			Recommended Time Frame: 2	1-26 aays	

## Grade 6 Life Science

Assessment Strand	Learning Goals/Concepts	Student Performance Objectives	Resources/Activities	Assessments	Terminology
4.1.5.A	Producers, consumers, and	Students will be able to evaluate the	Unit B Ch 1 Lesson 1	Ch 1 Test	
	decomposers have roles within an	impact of research and technology on	B4-5 Investigate	Standardized Test Prep	
	ecosystem.	scientific thought, society, and the	B5 Process Skill Tip - Identify/Control Variables	p.15	
		environment.	District Materials: "Plant Straws", "Charting Seed	p.16	
4.1.5.C	There are various food webs, which		Growth", "Vascular Plant Experiment"		
	may include humans.			District Materials:	
			Unit B Ch 1 lesson 2	Photosynthesis Questions	
4.2.6.A	PA has 5 major watersheds.		B12-13 Investigate		
			B15 Reading Mini-Lesson - Make Generalizations		
4.2.5.C	There are natural and human-made		B21 Activities for Home or School		
4.2.6.C	factors that affect water quality -		Project Learning Tree: p.179-181 "How Plants Grow"		
	(physical, chemical, biological)		Project Learning Tree: p.269-272 "The Tree Factory"		
			District Materials: "Trees With Raincoats"		
4.4.5.A	Animal production depends on plant				
4.4.6.A	production; each grow depending on		Unit B Ch 2 Lesson 1		
	climate and soil conditions.		B26-27 Investigate		
			District Materials: "Moss Experiment"		
4.5.6.A	Sustainable use of natural			Ch 2 Test	
	resources is essential for the		Unit B Ch 2 Lesson 2	Standardized Test Prep	
	survival of humans and other		B32-33 Investigate	p. 19	
	living things; historical events have		B40 Investigation Challenge	p.20	
	shaped the use of natural resources.			p.21	
			Unit B Ch 2 Lesson 3	p.22	
4.4.5.C	Plant and animal growth is		B42-43 Investigate	p.23	
	influenced by soil, water, nutrients,		District Materials: "Fruits and Veggies" handout		
	and light factors.				
			Unit B Ch 2 Lesson 4		
4.5.6.C	Key people and events have shaped		B50-51 Investigate		
	the environmental history in the U.S.				
			Unit B Ch 3 Lesson 1	Chapter 3 Test	
			B66-67 Investigate: Facts and Details	Standardized Test Prep	
			B70 Reading Mini-Lesson - Identify Supporting		
			Unit D Ch 2 Language 2	p.25	
			Unit B Ch 3 Lesson 2	p.26	
			B74-75 Investigate	p.27	
			B78 Reading Mini-Lesson - Cause and effect		
1			United Streaming		
		1	<u> </u>		

## Grade 6 Life Science

Assessment Strand	Learning Goals/Concepts	Student Performance Objectives	Resources/Activities	Assessments	Terminology
CC.1.3	Scientists acquire and use general	,	Unit B Ch 3 Lesson 3		5,
CC.1.4	scientific words and phrases; they		B84-85 Investigate		
	gather vocabulary knowledge when		B97 Activities for Home or School		
	considering a word or phrase		United Streaming		
	important to comprehension or		officed Streaming		
	expression.				
	Scientists organize ideas, concepts,				
	and information using strategies				
	such as classification, comparison/				
	contrast, and cause/effect.				
	Scientists develop and analyze		Unit B Ch 4 Lesson 1	Chapter 4 Test	
	topics with relevant facts, definitions,		B102-103 Investigate	Standardized Test Prep	
	details, or other information and		B109 reading Mini-Lesson	p.30	
	include graphics and multimedia		Dios reduing with Ecoson	p.31	
	when useful to help with		Unit B Ch 4 Lesson 2	p.32	
	comprehension.		B112-113 Investigate	p. 52	
	comprehension.		B113 Process Skill Tip		
	Scientists design and conduct		Project Learning Tree: p.52-53 "Charting Diversity"		
	scientific investigations. They		rioject Learning Tree. p.32-33 Charting Diversity		
	understand that current scientific				
	knowledge guides their investigations.				
	knowledge guides their investigations.				
CC.3.5.6-8.E	Analyze the structure an author uses				
	to organize a text, including how the				
	major sections contribute to the whole				
	and to an understanding of the topic.				
CC 3 5 6-8 F	Analyze the author's purpose in				
55.5.5.0 0.1	providing an explanation, describing		Recommended Time Frame: 42	-50 days	1
	a procedure, or discussing an		Accommended Time Frume. 42	Jo 4473	1
	•				
	experiment in a text.				
CC.3.5.6-8.I	Compare and contrast information				
	gained from experiments, simulations,				
	video, or multimedia sources with				
	that gained from reading a text on				
	the same topic.				