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7 major?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
										×	×	x							×								×										E1- Apply quantitative reasoning and appropriate mathematics to describe or explain pheNomena in the natural world
10.	×		_	×	ž –	_		×		×	X	X		_	-	×	×				_	× .							×	×	×	×	×	×	×	×	Demonstrate quantitative numeracy and facility with the language of mathematics. It issesses data sets and communicate those interpretations using visual and other appropriate tools.
===	×	×		×	×			×		_ š	8	×				= :	×		. 8			- X				, x	_ 8			×		×		×		×	
-		_		×	×					- ŝ	x	ŵ				_ ^	X	×	- 2				×	- 2			û		×	×	×	×	×	×	×	×	Estract selevant information from large data sets. Make inferences about rapural pheNomena usino mathematical models.
	х	x	x	×	×			×		×	×	x				×	×													I	ı						 Apply algorithmic approaches and principles of logic (including the distinction between causeleffect and ascalation) to problem solving. Causelff and inserved changes in dynamical systems.
5 5 5 5 15			x	_	×	_		×		×	x	×			_	1							_		_				×	. ×	×	×	. x	×	×	×	Quartify and inserver changes in dynamical systems. E2- Demonstrate understanding of the process of scientific inquiry, and explain how
16	x								×		×	×																									scientific kNowledge is discovered and validated.
17	×	×		×	×		×		×	×	X	X	×		1	1	x	_ ×					_		X					×		×		×		_ ×	Develop observational and interpretise skills through hands on laboratory or field experiences. Demonstrate ability to measure with precision, accuracy, and safes.
16	x =		_	x -					- ŝ	_	- ŝ	x	_				Х			1	1						1	1		î.		- ŝ		- ŝ		î	
20	х	x	x	×	×			×	×	×	×	x	×				×							1	×					×		×		×		×	4. Se able to articulate (in guided inquiry or in project-based research) scientific questions and hypotheses, design experiments, acquired as preferred data products, and creater results. 5. Demonstrates the abolity to search efficiently, to evaluate or risks of the communicate and analyze the
24	×							×	x	×	×	x					×								×					1							
																																					E3- Demonstrate Moveledge of basic physical principles and their applications to the understanding of living systems.
20								×	x		×	x	×												1		×	. ×	×	. ×			×	. ×			
24			x								×	x																									 Demonstrate kNowledge of the principles of electricity and magnetism (e.g., charge, current flow, resistance, capacitance, electrical potential, and magnetic fields).
v											×	x																×			×	×			×	×	Demonstrate Milowindge of wave generation and propagation to the production and transmission of radiation.
	×		x					х	×	_	×	×															×			<u> </u>	x	×		1	×	×	 Demonstrate Miswindos of the principles of thermodynamics and full motion. Demonstrate Miswindos of principles of quantum mechanics, such as assmic and molecular energy levels.
								×											×				×					×	×	×			×	×			
34			×					×	×	×	x	×	×		l			1	×					1	1					I	×	×			×	×	
20	×			×				×											×						•		×										E4- Demonstrate Wowledge of basic principles of chemistry and some of their applications to the understanding of living systems.
21	×			×				×									×	×				×				×	×	×			×	. ×			×	×	Demonstrate Miswindon of atomic structure.
#	: <u> </u>			× =		_	×	×			×	×					- X						×		- 1												Demonstrate Minarkadas of atomic structure. Demonstrate Minarkadas of molecular structure. Demonstrate Minarkadas of molecular structure.
22	×			×				×				×						×					×		×					I	ı						 Demonstrate kNowledge of thermodynamic orbeta for spontaneity of physical processes and chemical reactions and the relationship of thermodynamics to chemical equilibrium.
24	×			×				×			×	×						×					×				×										
2	×		_	×				×			1	1						1	×				×	×			×	×			1						seaction mechanisms. 6. Demonstrate khiswledge of the chemistry of carbon-containing compounds relevant to their behavior in an
		-				- '		l v														•			•					٠							acutous environment. E5- Demonstrate kNowledge of how biomolecules contribute to the structure and function
27		- 1			- 1	- 1				1					1			1			_	1	1		1		1				1	1	1	_		1	of cells.
32	х			×				×		-	×	×			1	1	1		- *			1						1	1		1	1	1		1	_	 Demonstrate Whowledge of the structure: blosvirthesis, and degradation of biological macromolecules.
	×		x	×			x	×			×	×			1	1		1	×		1		1	1	1	1	1	1		1	I	1		1		1	2. Demonstrate kNowledge of the principles of chemical thermodynamics and kinetics that drive biological
28																																					processes in the context of space (i.e., compartmentation) and time exzyme-catalyzed reactions and metabolic sathware, moutation, inscending and the chemical lock; of secureful inaction reset. 2. Semontate Missingle of the Societies processes that carry out transfer of belogical information from
	×			×				×								1		1	×					1	1	1		1		1	1						
	×			×				×											×								1				1						 Demonstrate Mowledge of the principles of generics and epigenetics to explain heritable traits in a variety of craniform.
	×		×					×					,							•							,	•						,			E6- Apply understanding of principles of how molecular and cell assemblies, organs, and
41						- 1				1		1	1	1	1	1		1			1	1	1	1	1	1	1	1		1	1		1	1	1	1	organisms develop structure and carry out function. 1. Employ blookedge of the general components of prokeryoric and eukaryotic cells, such as molecular,
	×	×	x	×	- 1			×		1	1	1	1	1	1	1	1	1	× .		1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	microscopic, macroscopic, and three-dimensional structure, to explain how different components combute to onliate and organismal function.
	×		×				x	×	×	_	×	×		1	t e		1	1			1	1			1	1		1	1		1	1	1		1	1	2. Demonstrate khlowledge of how cell-cell junctions and the extracelular matrix interact to form tissues with specialized function.
_	v .	_	Y	v	_	$\overline{}$		v						 	 	+	1	+	+	1	+	1	+	 	 	_	+	+	1	 	 	1	1	+	1	+	
44	_	_			-	_		0							1	+	1	 			+	1	+	 	+	-	+	+	1	 	1	+	1	+	1	+	 Demonstrate khiswiedge of the mechanisms governing cell division and development of embryos. Demonstrate khiswiedge of the principles of biomechanics and explain structural and functional properties of
45	^		^				×	×					×		1	1		1			1	1	1	1	1			1		1	1			1	1	1	Scues and cronnins. E7- Explain how organisms some and control their internal environment and how they
46		×	×				х	×			X	×	×																								respond to external chance.
.0	x	х	×				х	×	×		×	×	×						×					1	1						1						 Explain maintenance of homeostasis in living organisms by using principles of mass transport, heat transfer, energy balance, and feedback and control systems.
40		×	×				×	×	×		×	×	×						×_																		enersy balance, and feedback and corrol systems. 2. Explain physical and chemical mechanisms used for transduction and information processing in the sensing and resonation of internal and environmental sizuals.
\mathbf{n}	_		_	_		_					-				1	t	1	1 			1	1	1	 	 		_	1	1	 	1 	1	1	1	1		
49		×					×	×			×	×	×						- x															1			 Explain tow loing organisms use immal and external defence and avoidance mechanisms to protect. Explain town Threats, isosomic the spectrum from behavioral to smotural and immobilistic rescorers. E3-Demonstrate as understanding of how the organizing principle of evolution by natural
so.		x							×	x	×																										ES- Demonstrate an understanding of how the organizing principle of evolution by natural selection explains the diversity of life on earth.
21	x	×		×				×	×	×	×		_	_	_	_		_	-	_	_	_	_	_	_	_		_			-	_	_		_	_	Septian how enhitmic variability and muterion contribute to the success of conditions. Spitian how evolutionary mechanisms contribute to the success of conditions.
53		×							x	x	x					1			1		1		1	1				1		1	1						Explain tow evolutionary mechanisms contribute to change in gene frequencies in populations and to econocicity incitation.