

		2012				2013				2014			
		Test Form											
		1	2	3	4	1	2	3	4	1	2	3	4
Cells	Cell theory and advances in science; what is science	1	1	1	1	1	1	1	1	1	1	1	1
	Cell wall				1	1	1	1	1				
	Cell membrane	1		1			1			1	1	1	1
	Comparing plant and animal cells—cell wall, mitochondria, chloroplasts	1	1	1		2	2	2	1		1	1	1
	Comparing prokaryotic & eukaryotic cells					1	1		1	1	1	1	1
	General structures—eukaryotic cells	1	1	1	1					1	1	1	
	General structures—plant cells		1					1		1			
DNA	DNA replication	1	1	1	1	1	1	1	1	1	1		
	Chromosomal mutation											1	
	Gene mutation	1	1	1	1	1	1		1	1	1	1	2
	Similarities in genetic codes					1							
	Translation	1		1	1			1					
	Transcription		1										
Cell cycle	Comparing mitosis and meiosis		1		1	1	1	1	1		1		
	Stages of mitosis - anaphase, prophase, telophase								1	1	1	2	2
	Cytokinesis	1	1	1	1	1							
	Meiosis I and II—prophase			1	1	1	1	1	1			1	
	Role of mitosis—asexual reproduction			1	1		1				1	1	1
	Role of meiosis—asexual reproduction, sexual reproduction	1	1			1		1		2			
	Uncontrolled cell growth	1	1				1	1		1	1	1	1
Biochem	Biochemical reactions and enzymes	1	1	1	1	1	1	1	1	1	1	1	1
	Nucleic acids—primary function	1	1	1	1						1	1	1
	Proteins—molecular structure	1				1	1	1	1			1	
	Lipids—primary function		1		1					1			
	Carbohydrates—primary function			1		1	1	1	1				
Energetics	Cellular respiration												1
	Cellular respiration—anaerobic; aerobic	1	1	1	1			1		1	1	1	1
	Cellular respiration—products	1											
	Photosynthesis and cellular respiration relationship				1		1			1	1		
	Role of ATP	1	1		1	1		1		1			
	Photosynthesis - reactants								1		1		
Water	cohesive behavior; freezing; solvent; moderating temp	1	1	2	2	2	1	2	2	2	1	2	2
Evolution	Evaluating scientific claims—evolution;			1		1	1	1	1			1	
	Evidence for evolution—comparative embryology, comparative anatomy, fossil record, molecular	4	3	2	3	2	1	2	3	3	2	2	2
	Trends in hominid evolution—jaw size; skull shape				1		1						
	Evaluating scientific claims—origin of life			1		1							
	Conditions required for life; Scientific explanations for life on Earth	2	2	1	2	1	2	2	2	2	2	1	2
	Genetic drift	1		1		1	1	1	1	1			1
	Gene flow										1		
	Increasing genetic variation	1	1	1			1	1		1	1	1	
	Inherited variations	1	1	1	1	1				1	1	1	1
	Overproduction of offspring				1					1			1

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		1	2	3	4	1	2	3	4	1	2	3	4
Classification	Changes in organism classification	1	1	1	1					1	1	1	
	Distinguishing characteristics—Plantae, Protista, Animalia, Eukarya, Fungi	1	1	2	1	3	2	2	2	1	1	1	2
	Understanding classification		1				1	1	1		1	1	1
Inheritance	Analyzing patterns of inheritance		1	1	1	1	1	1	1		1		1
	Predicting inherited patterns						1						1
	sex-linked								1	1	1	1	1
	Codominance	1	1		1	1	1	1	1	1		1	
	Polygenic inheritance					1		1					
	Incomplete dominance	1	1	1								1	
Plants	Flowers	1	1	1	1								
	Plant roots, leaves	1	1	1		1	1	1	2	1	1	1	1
	Plant structures - photosynthesis, reproduction, transpirat.	1	1	1	2	2	2	1	1				1
	Vascular tissue						1	1					
	Dermal tissue		1								1		
	Cones			1		1				1	1	1	1
A&P	Brain - parietal lobe, occipital lobe, pons, brain stem									1	1	1	1
	Resistance										1		1
	Blood pressure											1	
	Blood viscosity									1			
	Significance of pathogenic agents	1	1	1	1	1		1	1	1	1	1	1
	Significance of genetic factors						1						
	Nonspecific response										1	1	
	Specific response									1			
	Female reproductive organs	1	1	1	1			1	1	1	1	1	1
	Male reproductive organs								1				
Human development fertilization to birth	1	1	1	1	1	1							
Biotech	Impact - environmental, individual, society	2	2	2	2	3	3	2	2	2	3	1	1
Ecology	Changes in ecosystems—seasonal variations, succession, climate change	2	2	2	2	1	2	2	2	1	2	2	1
	Consequences to biodiversity—climate change, nonnative species, human activity	2	3	2	2	1	2	1	2	2	1	1	2
	Carrying capacity												1
	Life in aquatic systems - temperature	1	1	1	1	1	2	1	1	1		1	
	Limiting factors		1	1			1	1		1	1	1	1
	Carbon cycle	1			1	1							1
	Water cycle										1		
	Energy pathways—energy pyramid, food web	2	1	2	1	2	1	2	2	1	1	2	1
	Human impact on environmental systems	2	2	2	2	1	2	2	2	1		1	1
	Monitoring environmental parameters									1	1		1
	Using renewable resources	2	1	1	2	1	2	2	2			1	1
Nature of Science	Defending conclusions			1			1		1	2	1	2	3
	Designing scientific investigations			1		1			1	1	1	1	
	Evaluating scientific investigations	3	3	2	2	1	1	2	2		1		
	Evaluating scientific explanations	1	1	1	1	1	2	1	1		1	2	
	Making inferences	1		1		1			1			1	1
	Analyzing data	1	2	1	1			1			2		1