

Assessment Name: MorganHill_Science_Grade7_B1_1112
Subject Name: Science
Grade(s)/Course(s): Grade 7
Total Number of Items 41

STANDARDS	
1.a - Cell Biology	2
1.b - Cell Biology	1
1.c - Cell Biology	1
1.d - Cell Biology	2
1.e - Cell Biology	1
1.f - Cell Biology	1
2.a - Genetics	2
2.b - Genetics	1
2.c - Genetics	1
2.d - Genetics	1
2.e - Genetics	1
3.a - Evolution	1
3.b - Evolution	1
3.c - Evolution	1
3.e - Evolution	2
4.a - Earth and Life History (Earth Science)	1
4.c - Earth and Life History (Earth Science)	2
4.d - Earth and Life History (Earth Science)	1
4.e - Earth and Life History (Earth Science)	2
5.a - Structure and Function in Living Systems	2
5.b - Structure and Function in Living Systems	2
5.c - Structure and Function in Living Systems	1
5.d - Structure and Function in Living Systems	1
5.f - Structure and Function in Living Systems	1
5.g - Structure and Function in Living Systems	1
6.a - Physical Principles in Living Systems (Physical Sc	1
6.c - Physical Principles in Living Systems (Physical Sc	1
6.d - Physical Principles in Living Systems (Physical Sc	1
6.e - Physical Principles in Living Systems (Physical Sc	1
6.f - Physical Principles in Living Systems (Physical Sc	2
6.i - Physical Principles in Living Systems (Physical Sc	1
6.j - Physical Principles in Living Systems (Physical Sc	1
BLOOM'S TAXONOMY	
Evaluation	0

Synthesis	1
Analysis	6
Application	8
Comprehension	11
Knowledge	15
Conceptual Understanding	0
N/A	0
DIFFICULTY LEVEL	
Low	8
Medium	29
High	4
N/A	0

#	Standard	Difficulty Level				Bloom's Taxonomy							
		Low	Medium	High	N/A	Evaluation	Synthesis	Analysis	Application	Comprehension	Knowledge	Conceptual Understanding	N/A
1	1.a - Cell Biology	Low									Knowledge		
2	1.a - Cell Biology		Medium								Knowledge		
3	1.b - Cell Biology		Medium						Application				
4	1.c - Cell Biology		Medium								Knowledge		
5	1.d - Cell Biology		Medium							Comprehension			
6	1.d - Cell Biology	Low									Knowledge		
7	1.e - Cell Biology		Medium						Application				
8	1.f - Cell Biology			High			Synthesis						
9	2.a - Genetics	Low								Comprehension			
10	2.a - Genetics		Medium								Knowledge		
11	2.b - Genetics		Medium						Application				
12	2.c - Genetics			High				Analysis					
13	2.d - Genetics		Medium						Application				
14	2.e - Genetics			High						Comprehension			
15	3.a - Evolution		Medium						Application				
16	3.b - Evolution	Low									Knowledge		
17	3.c - Evolution		Medium							Comprehension			
18	3.e - Evolution		Medium					Analysis					
19	3.e - Evolution		Medium					Analysis					
20	4.a - Earth and Life History (Earth Science)		Medium								Knowledge		
21	4.c - Earth and Life History (Earth Science)	Low						Analysis					
22	4.c - Earth and Life History (Earth Science)		Medium						Application				
23	4.e - Earth and Life History (Earth Science)		Medium					Analysis					
24	4.e - Earth and Life History (Earth Science)			High				Analysis					
25	5.a - Structure and Function in Living Systems		Medium								Knowledge		
26	5.a - Structure and Function in Living Systems		Medium							Comprehension			
27	5.b - Structure and Function in Living Systems		Medium								Knowledge		
28	5.b - Structure and Function in Living Systems		Medium							Comprehension			

#	Standard	Difficulty Level				Bloom's Taxonomy							
		Low	Medium	High	N/A	Evaluation	Synthesis	Analysis	Application	Comprehension	Knowledge	Conceptual Understanding	N/A
29	5.c - Structure and Function in Living Systems	Low									Knowledge		
30	5.d - Structure and Function in Living Systems	Low									Knowledge		
31	5.f - Structure and Function in Living Systems		Medium								Knowledge		
32	5.g - Structure and Function in Living Systems		Medium							Comprehension			
33	6.a - Physical Principles in Living Systems (Physical Sc		Medium							Comprehension			
34	6.c - Physical Principles in Living Systems (Physical Sc		Medium							Comprehension			
35	6.d - Physical Principles in Living Systems (Physical Sc		Medium								Knowledge		
36	6.e - Physical Principles in Living Systems (Physical Sc	Low								Comprehension			
37	6.f - Physical Principles in Living Systems (Physical Sc		Medium								Knowledge		
38	6.f - Physical Principles in Living Systems (Physical Sc		Medium							Comprehension			
39	6.i - Physical Principles in Living Systems (Physical Sc		Medium						Application				
40	6.j - Physical Principles in Living Systems (Physical Sc		Medium								Knowledge		
41	4.d - Earth and Life History (Earth Science)		Medium						Application				
Total		8	29	4	0	0	1	6	8	11	15	0	0

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Item #	Correct Answer	Standard
1	B	7 - 1.a - Cell Biology - Students know cells function similarly in all living organisms.
2	C	7 - 1.a - Cell Biology - Students know cells function similarly in all living organisms.
3	D	7 - 1.b - Cell Biology - Students know the characteristics that distinguish plant cells from animal cells, including chloroplasts and cell walls.
4	D	7 - 1.c - Cell Biology - Students know the nucleus is the repository for genetic information in plant and animal cells.
5	C	7 - 1.d - Cell Biology - Students know that mitochondria liberate energy for the work that cells do and that chloroplasts capture sunlight energy for photosynthesis.
6	C	7 - 1.d - Cell Biology - Students know that mitochondria liberate energy for the work that cells do and that chloroplasts capture sunlight energy for photosynthesis.
7		7 - 1.e - Cell Biology - Students know cells divide to increase their numbers through a process of mitosis, which results in two daughter cells with identical sets of chromosomes.
8	A	7 - 1.f - Cell Biology - Students know that as multicellular organisms develop, their cells differentiate.
9	D	7 - 2.a - Genetics - Students know the differences between the life cycles and reproduction methods of sexual and asexual organisms.
10	B	7 - 2.a - Genetics - Students know the differences between the life cycles and reproduction methods of sexual and asexual organisms.
11	A	7 - 2.b - Genetics - Students know sexual reproduction produces offspring that inherit half their genes from each parent.
12	D	7 - 2.c - Genetics - Students know an inherited trait can be determined by one or more genes.
13	B	7 - 2.d - Genetics - Students know plant and animal cells contain many thousands of different genes and typically have two copies of every gene. The two copies (or alleles) of the gene may or may not be identical, and one may be dominant in determining the phenotype while the other is recessive.
14	A	7 - 2.e - Genetics - Students know DNA (deoxyribonucleic acid) is the genetic material of living organisms and is located in the chromosomes of each cell.
15	B	7 - 3.a - Evolution - Students know both genetic variation and environmental factors are causes of evolution and diversity of organisms.
16	C	7 - 3.b - Evolution - Students know the reasoning used by Charles Darwin in reaching his conclusion that natural selection is the mechanism of evolution.
17	D	7 - 3.c - Evolution - Students know how independent lines of evidence from geology, fossils, and comparative anatomy provide the bases for the theory of evolution.
18	B	7 - 3.e - Evolution - Students know that extinction of a species occurs when the environment changes and that the adaptive characteristics of a species are insufficient for its survival.
19	B	7 - 3.e - Evolution - Students know that extinction of a species occurs when the environment changes and that the adaptive characteristics of a species are insufficient for its survival.
20	B	7 - 4.a - Earth and Life History (Earth Science) - Students know Earth processes today are similar to those that occurred in the past and slow geologic processes have large cumulative effects over long periods of time.
21	D	7 - 4.c - Earth and Life History (Earth Science) - Students know that the rock cycle includes the formation of new sediment and rocks and that rocks are often found in layers, with the oldest generally on the bottom.
22	D	7 - 4.c - Earth and Life History (Earth Science) - Students know that the rock cycle includes the formation of new sediment and rocks and that rocks are often found in layers, with the oldest generally on the bottom.
23	C	7 - 4.e - Earth and Life History (Earth Science) - Students know fossils provide evidence of how life and environmental conditions have changed.
24	C	7 - 4.e - Earth and Life History (Earth Science) - Students know fossils provide evidence of how life and environmental conditions have changed.
25	A	7 - 5.a - Structure and Function in Living Systems - Students know plants and animals have levels of organization for structure and function, including cells, tissues, organs, organ systems, and the whole organism.

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Item #	Correct Answer	Standard
26	A	7 - 5.a - Structure and Function in Living Systems - Students know plants and animals have levels of organization for structure and function, including cells, tissues, organs, organ systems, and the whole organism.
27	B	7 - 5.b - Structure and Function in Living Systems - Students know organ systems function because of the contributions of individual organs, tissues, and cells. The failure of any part can affect the entire system.
28	B	7 - 5.b - Structure and Function in Living Systems - Students know organ systems function because of the contributions of individual organs, tissues, and cells. The failure of any part can affect the entire system.
29	A	7 - 5.c - Structure and Function in Living Systems - Students know how bones and muscles work together to provide a structural framework for movement.
30	D	7 - 5.d - Structure and Function in Living Systems - Students know how the reproductive organs of the human female and male generate eggs and sperm and how sexual activity may lead to fertilization and pregnancy.
31	B	7 - 5.f - Structure and Function in Living Systems - Students know the structures and processes by which flowering plants generate pollen, ovules, seeds, and fruit.
32	B	7 - 5.g - Structure and Function in Living Systems - Students know how to relate the structures of the eye and ear to their functions.
33	D	7 - 6.a - Physical Principles in Living Systems (Physical Sc - Students know visible light is a small band within a very broad electromagnetic spectrum.
34	C	7 - 6.c - Physical Principles in Living Systems (Physical Sc - Students know light travels in straight lines if the medium it travels through does not change.
35	A	7 - 6.d - Physical Principles in Living Systems (Physical Sc - Students know how simple lenses are used in a magnifying glass, the eye, a camera, a telescope, and a microscope.
36	B	7 - 6.e - Physical Principles in Living Systems (Physical Sc - Students know that white light is a mixture of many wavelengths (colors) and that retinal cells react differently to different wavelengths.
37	A	7 - 6.f - Physical Principles in Living Systems (Physical Sc - Students know light can be reflected, refracted, transmitted, and absorbed by matter.
38	D	7 - 6.f - Physical Principles in Living Systems (Physical Sc - Students know light can be reflected, refracted, transmitted, and absorbed by matter.
39	D	7 - 6.i - Physical Principles in Living Systems (Physical Sc - Students know how levers confer mechanical advantage and how the application of this principle applies to the musculoskeletal system.
40	C	7 - 6.j - Physical Principles in Living Systems (Physical Sc - Students know that contractions of the heart generate blood pressure and that heart valves prevent backflow of blood in the circulatory system.
41	A	7 - 4.d - Earth and Life History (Earth Science) - Students know that evidence from geologic layers and radioactive dating indicates Earth is approximately 4.6 billion years old and that life on this planet has existed for more than 3 billion years.