

Practice Test Answer and Alignment Document Science: Grade 8 Online

Item Number	Answer Key	Performance Expectation
1.	С	MS-LS1-1
2.	С	MS-LS1-1
3.	The sentence should read: Using observations from their investigation, the students classified the salt as [nonliving] because unlike the onion, the salt [lacks cells].	MS-LS1-1
4.	D	MS-LS1-3
5.	The order of body structures from "Least Complex Organization" to "Most Complex Organization" is: Cells, Tissues, Organs, Organ systems, Body.	MS-LS1-3
6.	Refer to Grade 8 Science Scoring Rubric	MS-LS1-3
7.	D	MS-ESS2-4
8.	Part 1: "Renewable Resources" include: 1) water 2) trees 3) sunlight "Nonrenewable Resources" include: 1) metal 2) oil 3) coal Answers can be in any order in each box. Part 2: D	MS-ESS3-1

Item Number	Answer Key	Performance Expectation
9.	A, D, E	MS-ESS2-4
10.	A	MS-ESS3-1
11.	В	MS-ESS3-1
12.	Refer to Grade 8 Science Scoring Rubric	MS-ESS3-1

Item Number	Answer Key	Performance Expectation
1.	С	MS-PS1-1
2.	В	MS-PS1-1
3.	A	MS-PS1-1
4.	D	MS-PS1-1
5.	The sentence should read: In the thermometer model, the liquid expanded because the [average kinetic energy] of a liquid's molecules changes proportionally to the change in [temperature].	MS-PS1-4
6.	Refer to Grade 8 Science Scoring Rubric	MS-PS1-4
7.	В	MS-LS3-2
8.	"Number of Chromosomes in Each Parent" is: 28 "Number of Chromosomes Provided by Parent 1" is: 14 "Number of Chromosomes Provided by Parent 2" is: 14 "Number of Chromosomes in Each Offspring"	MS-LS3-2
	is: 28	
9.	The sentences should read: When different colonies of corals reproduce with one another, the method of reproduction used is [sexual]. This method of reproduction will most likely cause [an increase in genetic variation] for the coral offspring.	MS-LS4-4
10.	A	MS-LS4-4

Item Number	Answer Key	Performance Expectation
11.	Part 1: D Part 2: The sentences should read: The students' research indicated that if ocean temperatures continue to increase, corals will most likely have [a decrease] in genetic variation due to the population [decreasing in size]. This will cause coral populations to experience [a decreased likelihood] of survival.	MS-LS4-4
12.	Refer to Grade 8 Science Scoring Rubric	MS-LS3-2

Item Number	Answer Key	Performance Expectation
1.	В	MS-ESS2-3
2.	A	MS-ESS2-2
3.	D	MS-ESS2-3
4.	The sentence should read: Future plate movement will most likely result in these mountains [increasing in size] because the plates will [collide with one another].	MS-ESS1-4
5.	D	MS-ESS1-4
6.	Refer to Grade 8 Science Scoring Rubric	MS-ESS1-4
7.	The sentences should read: After researching the orbits of asteroids in the solar system, students explained that in order for asteroids in the asteroid belt to remain in orbit, [the sun] must exert a strong gravitational force. The direction of the force is [toward] the center of the solar system.	MS-PS2-4
8.	В	MS-PS2-1
9.	The order of asteroids from "Weakest Gravitational Attraction" to "Strongest Gravitational Attraction" is: Otawara, Gaspra, Mathilde, Eugenia, Juno.	MS-PS2-4
10.	Part 1: The asteroid that would most likely be orbited by other asteroids is: Vesta Part 2: A	MS-PS2-4
11.	The point in Golevka's orbit that the Yarkovsky effect is the weakest is: 1	MS-PS2-4
12.	Refer to Grade 8 Science Scoring Rubric	MS-PS2-4

Item Number	Answer Key	Performance Expectation
1.	C, E	MS-PS3-3
2.	D	MS-PS3-3
3.	С	MS-PS3-4
4.	The sentence should read: The data from the investigation showed that after each metal cube was placed into the water, the temperature of the water [increased], and the kinetic energy of the water molecules [increased].	MS-PS3-4
	The "Before Placing the Cube in Water" box includes:	
5.	 Kinetic energy was greater. Thermal energy was greater. The "After Placing the Cube in Water" box includes: Kinetic energy was less. Thermal energy was less. Answers can be in any order in each box. 	MS-PS3-5
6.	Refer to Grade 8 Science Scoring Rubric	MS-PS3-5
7.	The "Producer" box includes: 1) big bluestem grass The "Consumer" box includes: 1) American bison 2) black-tailed prairie dog 3) golden eagle Answers can be in any order in the "Consumer" box.	MS-LS2-3
8.	D	MS-LS2-3
9.	В	MS-LS2-3
10.	D	MS-LS2-1

Item Number	Answer Key	Performance Expectation
11.	The sentence should read: The prairie dog and the grasshopper interact in a [competitive] way because the prairie dog [consumes the same resources as] the grasshopper.	MS-LS2-2
12.	Refer to Grade 8 Science Scoring Rubric	MS-LS2-1