

Cycle 4 Assessment 2018-2019 2002070 MJ Comp Science 2	Blueprint Template w/o TEI Items														
	Item Types & Point Values						Estimated Item Difficulty			Item Complexity Webb's DOK				Total # of Items	Comments/ Content Limits
Benchmark	#Multiple Choice	Point Value per MC Question	#Constructed Response	Point Value per CR question	# Performance Tasks	Point Value per PT	# Easy	#Average	#Challenging	#Level 1 (Recall)	#Level 2 (Skill/ Concept)	#Level 3 (Strategic Thinking)	#Level 4 (Extended Thinking)		
SC.7.L.17.2: Compare and contrast the relationships among organisms such as mutualism, predation, parasitism, competition, and commensalism.	5	1	0	0	0	0	0	4	1	0	4	1	0	5	
SC.7.L.17.1: Explain and illustrate the roles of and relationships among producers, consumers, and decomposers in the process of energy transfer in a food web.	5	1	0	0	0	0	1	3	1	1	3	1	0	5	
SC.7.L.17.3: Describe and investigate various limiting factors in the local ecosystem and their impact on native populations, including food, shelter, water, space, disease, parasitism, predation, and nesting sites.	5	1	0	0	0	0	0	3	2	0	3	2	0	5	
SC.7.P.10.3: Recognize that light waves, sound waves, and other waves move at different speeds in different materials.	4	1	0	0	0	0	1	1	2	1	1	2	0	4	
SC.7.P.10.2: Observe and explain that light can be reflected, refracted, and/or absorbed.	4	1	0	0	0	0	0	3	1	0	3	1	0	4	
SC.7.P.10.1: Illustrate that the sun's energy arrives as radiation with a wide range of wavelengths, including infrared, visible, and ultraviolet, and that white light is made up of a spectrum of many different colors.	4	1	0	0	0	0	1	2	1	1	2	1	0	4	
SC.8.E.5.11: Identify and compare characteristics of the electromagnetic spectrum such as wavelength, frequency, use, and hazards and recognize its application to an understanding of planetary images and satellite photographs.	3	1	0	0	0	0	2	1	0	2	1	0	0	3	
SC.7.P.11.4: Observe and describe that heat flows in predictable ways, moving from warmer objects to cooler ones until they reach the same temperature.	4	1	0	0	0	0	0	4	0	0	4	0	0	4	
SC.7.P.11.1: Recognize that adding heat to or removing heat from a system may result in a temperature change and possibly a change of state.	4	1	0	0	0	0	0	4	0	0	4	0	0	4	
SC.7.P.11.2: Investigate and describe the transformation of energy from one form to another.	3	1	0	0	0	0	0	3	0	0	3	0	0	3	
SC.7.P.11.3: Cite evidence to explain that energy cannot be created nor destroyed, only changed from one form to another.	3	1	0	0	0	0	0	3	0	0	3	0	0	3	

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SC.6.P.11.1: Explore the Law of Conservation of Energy by differentiating between potential and kinetic energy. Identify situations where kinetic energy is transformed into potential energy and vice versa.	3	1	0	0	0	0	0	2	1	0	2	1	0	3	
SC.7.N.1.1: Define a problem from the seventh grade curriculum, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigation of various types, such as systematic observations or experiments, identify variables, collect and organize data, interpret data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.	3	1	0	0	0	0	0	3	0	0	3	0	0	3	
	50		0		0		5	36	9	5	36	9	0	50	
Total Points Per Item Type	50		0		0										
% of Points Per Item Type	100.0%		0.0%		0.0%										