

SC200 Assignment Scoring Guides

Unit 2 Project

Performance Elements			Points	
Category	Criteria	Expectation	Earned	Possible
Project Requirements	Application of scientific method	Applies 5 steps of the scientific method (3-pts each step).		15
		Scientific method used in logical sequence		6
		There is a testable hypothesis that is consistent with the information provided in the scenario		10
		There is a clear explanation of an experiment to test the hypothesis (7 points). Demonstrates through example the reflective nature of the scientific method (7 points)		14
		Clearly presents three testable questions that they could ask to help evaluate their hypothesis. (2-pts each question).		6
		Identifies the neighbor's hypothesis as testable or not testable. Explains how it could be tested or why it cannot be tested in the context of the scientific method.		10
		Terminology related to the scientific method is properly utilized throughout (5 pts), synthesizing the problem solving scenario with relevant steps (5 pts).		10
	Organization, logic, details	Communication shows order, logic, and unification (4 pts); includes an introduction (3 pts), transitions throughout and a summative conclusion (3 pts), demonstrating a clear understanding of target concepts.		10
Writing and Presentation Mechanics	Spelling/ Grammar	Free of any spelling/grammatical/word choice errors		2
	APA style references	Follows APA style for parenthetical/in-text citations and reference page and includes a minimum of 3 sources. Sources are scientifically valid (i.e., no Wikipedia).		2
	PowerPoint Organization and Formatting	PowerPoint presentation is readable, with proper use of graphics and background styling; Font size is appropriate		5
		Late Penalty (as applicable)		
		TOTAL POINTS		90

Unit 4 Project

Performance Elements			Points		
Category	Criteria	Expectation	Earned	Possible	
Project Requirements	Energy self-assessment	Describes minimum of 5 daily life situations including how each situation requires energy (2-pts each)		10	
		Origin of energy sources utilized, and their renewable/nonrenewable status discussed		9	
	Renewable Energy Analysis	Includes analysis of the renewable energy source that would be most appropriate for their location.		8	
		Includes analysis of the renewable energy source that would be the least appropriate for their location.		8	
	Energy Source Comparison: Economic Costs/ Benefits and Ecological Impacts	Discusses the advantages and disadvantages of current energy sources including economic (costs/benefits) and ecological impacts.		12	
		Discusses the advantages and disadvantages of the two renewable energy sources including economic (costs/benefits) and ecological impacts.		12	
		Minimum of 3 additional energy conservation techniques identified and described (5-pts each).		12	
	Organization, logic, details	Communication shows order, logic, and unification (2 pts); includes an introduction (3 pts), transitions throughout and a summative conclusion (3 pts), demonstrating a clear understanding of target concepts. Length requirement (1000 words min) met (2 pts)		10	
	Writing Mechanics	Spelling/ Grammar	Free of any spelling/grammatical/ word choice errors		2
		APA style references	Follows APA style for parenthetical/in-text citations and reference page and includes a minimum of 5 sources. Sources are scientifically valid (i.e., no Wikipedia).		5
APA format		Body of the paper follows APA formatting guidelines including title page, spacing, font size, paragraph style and margins.		2	
		Late Penalty (as applicable)			
		TOTAL POINTS		90	

Unit 6 Project

Performance Elements			Points	
Category	Criteria	Expectation	<i>Earned</i>	<i>Possible</i>
Project Requirements	Meal analysis: source identification	Thoroughly identifies sources of ingredients of a meal containing a minimum of four components (5 points each)		20
	Meal analysis: farming and labor practices	Farming and labor practices researched and discussed for all ingredients within meal		9
	Meal analysis: packaging/ processing and shipping	Energy consumption necessary for packaging/ processing/ shipping of ingredients researched and discussed for all ingredients within meal		10
	Economic and Ecological analysis of food choice	Traditional and locavore ingredient options discussed from the perspectives of ecological (5-pts) and economic (5-pts) impacts		10
	Meal analysis: applying locavore concepts	Alternative sources for all four meal components identified to align with guidelines provided in project materials for research (3 points each)		12
	Applying food choice to Think Globally, Act Locally	Analysis of how local food choices can have a global impact, citing specific examples from meal analysis, provided materials or additional research		10
	Organization, logic, details	Communication shows order, logic, and unification (2 pts); includes an introduction (3 pts), transitions throughout and a summative conclusion (3 pts), demonstrating a clear understanding of target concepts. Length requirement (1000 words min) met (2 pts)		10
Writing and Presentation Mechanics	Spelling/ Grammar	Free of any spelling/grammatical/ word choice errors		2
	APA style references	Follows APA style for parenthetical/in-text citations and reference page and includes a minimum of 5 sources. Sources are scientifically valid (i.e., no Wikipedia).		5
	APA format	Body of the paper follows APA formatting guidelines including title page, spacing, font size, paragraph style and margins.		2
		Late Penalty (as applicable)		
		TOTAL POINTS		90

Unit 8 Project

Performance Elements			Points	
Category	Criteria	Expectation	Earned	Possible
Project Requirements	Define terms	Explains the difference between science and technology.		10
	Select a biotechnology	Identifies and describes a biotechnology.		10
	Scientific discovery	Identifies and describes two scientific discoveries that needed to take place before the biotechnology could be developed (8 pts ea).		16
	Technological advances	Identifies and describes two technologies that needed to exist before the biotechnology could be developed (8 pts ea).		16
	Analyzing the pros and cons of biotechnology	Identifies and discusses two positives (6 pts) and two negatives (6 pts) of biotechnological advances. Discusses any limitations that should be put on advances in biotechnology (7 pts).		19
	Organization, logic, details	Communication shows order, logic, and unification (2 pts); includes an introduction (3 pts), transitions throughout and a summative conclusion (3 pts), demonstrating a clear understanding of target concepts. Length requirement (1000 words min) met (2 pts)		10
Writing Mechanics	Spelling/ Grammar	Free of any spelling/grammatical/ word choice errors		2
	APA style references	Follows APA style for parenthetical/in-text citations and reference page and includes a minimum of 5 sources. Sources are scientifically valid (i.e., no Wikipedia).		5
	APA format	The body of the paper follows APA formatting guidelines including title page, spacing, font size, paragraph style and margins.		2
		Late Penalty (as applicable)		
		TOTAL POINTS		90

Unit 9 Project

Performance Elements			Points	
Category	Criteria	Expectation	Earned	Possible
Project Requirements	Science in your personal and professional life (part 1)	Lists 4 different technologies used throughout the day (1 pts ea)		4
		Discusses the negative impacts of these technologies (3 pts each)		12
		Describes 1 scientific discovery that was necessary for modern life to be possible		5
		Lists both negative and positive technologies developed based on this scientific discovery (5 pts). Evaluates the overall positive or negative impact of the discovery (5 pts).		10
	Science and technology in a multicultural world (part2)	Discusses one advantage (5 pts) and one disadvantage (5 pts) to the westernized high-tech research approach to medical treatment.		10
		Discusses one advantage (5 pts) and one disadvantage (5 pts) to using traditional medicine as an approach to medical treatment.		10
		Discusses the advantages of combining some aspects of both approaches to improve medical care overall		10
		Discusses the challenges associated with combining some aspects of both approaches to improve medical care overall		10
	Organization, logic, details	Communication shows order, logic, and unification (2 pts); includes an introduction (3 pts), transitions throughout and a summative conclusion (3 pts), demonstrating a clear understanding of target concepts. Length requirement (1000 words min) met (2 pts)		10
	Writing Mechanics	Spelling/ Grammar	Free of any spelling/grammatical/ word choice errors	
APA style references		Follows APA style for parenthetical/in-text citations and reference page and includes a minimum of 5 sources. Sources are scientifically valid (i.e., no Wikipedia).		5

	APA format	The body of the paper follows APA formatting guidelines including title page, spacing, font size, paragraph style and margins.		2
		Late Penalty (as applicable)		
		TOTAL POINTS		90