PURDUE
U N I V E R S I T Y ®
GL BAL

SC200 Unit 2 Assignment Rubric

SC200-1: Explain basic scientific principles and their limitations.

GEL-3.01: Use experimental inquiry to inform problem solving.

Assignment Criteria	Level IV	Level III	Level II	Level I	Not Present
Criteria 1 (10%)	**Level IV Max Points Points: 9.00**	**Level III Max Points Points: 8.01**	**Level II Max Points Points: 7.11**	**Level I Max Points Points: 6.21**	**0 Points**
Scientific Method	**Meets all criteria** • Lists the fundamental steps of scientific method. • Describes the fundamental steps of scientific method. • Terms associated with the scientific method, such as hypothesis, are included and used correctly. • Data listed from scenario.	**The following is true:** • Data listed from scenario. **And meets 2 criteria** • Lists the fundamental steps of scientific method. • Describes the fundamental steps of scientific method. • Terms associated with the scientific method, such as hypothesis, are included and used correctly.	**The following is true:** • Data listed from scenario. **And meets 1 criteria** • Lists the fundamental steps of scientific method. • Describes the fundamental steps of scientific method. • Terms associated with the scientific method, such as hypothesis, are included and used correctly.	**Meets 1 criteria** • Lists the fundamental steps of scientific method. • Describes the fundamental steps of scientific method. • Terms associated with the scientific method, such as hypothesis, are included and used correctly. • Data listed from scenario.	**Does not meet any criteria.**
Criteria 2 (15%)	**Level IV Max Points Points: 13.50**	**Level III Max Points Points: 12.015**	**Level II Max Points Points: 10.665**	**Level I Max Points Points: 9.315**	**0 Points**

Assignment Criteria	Level IV	Level III	Level II	Level I	Not Present
Development of Hypothesis	**Meets all criteria** • Develops an original hypothesis that is different from the one provided. • Shows how data from scenario relates to the hypothesis. • Develops a hypothesis that is specific. • Develops a hypothesis that is testable.	**The following is true** • Develops an original hypothesis that is different from the one provided. **And meets 2 criteria** • Shows how data from scenario relates to the hypothesis. • Hypothesis is specific. • Hypothesis is testable.	**The following is true** • Develops an original hypothesis that is different from the one provided. **And meets 1 criteria** • Shows how data from scenario relates to the hypothesis. • Hypothesis is specific. • Hypothesis is testable.	**Meets all criteria** • Shows how data from scenario relates to the provided hypothesis. **Does not include:** • Newly developed hypothesis. • Specific hypothesis. • Testable hypothesis.	**Does not meet any criteria.**
Criteria 3 (20%)	**Level IV Max Points Points: 18.00**	**Level III Max Points Points: 16.02**	**Level II Max Points Points: 14.22**	**Level I Max Points Points: 12.42**	**0 Points**
Experimental Design	**Meets all criteria** • Provides clear outline of an experiment to test hypothesis provided in assignment. • Experiment has a logical progression of steps. • Correctly identifies the independent variable. • Correctly identifies the dependent variable. • Indicates a minimum of 3 things to be held constant.	**The following is true** • Provides clear outline of experiment to test hypothesis. **And meets 3 criteria** • Indicates at least 3 things to be held constant. • Experiment has logical progression of steps. • Correctly identifies the independent variable. • Correctly identifies the dependent variable.	**The following is true** • Provides clear outline of experiment to test hypothesis. **And meets 2-3 criteria** • Indicates at least 2 things to be held constant. • Experiment has logical progression of steps. • Correctly identifies the independent variable. • Correctly identifies the dependent variable.	**Meets 2-3 criteria** • Indicates a minimum of 1 thing to be held constant. • Provides clear outline of an experiment to test hypothesis. • Experiment has a logical progression of steps. • Correctly identifies the independent variable. • Correctly identifies the dependent variable.	**Does not meet any criteria.**
Criteria 4 (15%)	**Level IV Max Points Points: 13.50**	**Level III Max Points Points: 12.015**	**Level II Max Points Points: 10.665**	**Level I Max Points Points: 9.315**	**0 Points**

Assignment Criteria	Level IV	Level III	Level II	Level I	Not Present
Analysis of Experimental Results	**Meets all criteria** • Explains outcome when hypothesis is supported by experiment. • Explains outcome when hypothesis is not supported by experiment. • Provides 3 testable questions for the dog's owner that would help support or disprove the proposed hypothesis used for experiment.	**The following is true** • Provides 3 testable questions for the dog's owner that would help support or disprove the proposed hypothesis used for experiment. **And meets 1 criteria** • Explains outcome when hypothesis is supported by experiment. • Explains outcome when hypothesis is not supported by experiment.	**The following is true** • Provides 2 testable questions for the dog's owner that would help support or disprove the proposed hypothesis used for experiment. **And meets 1 criteria** • Explains outcome when hypothesis is supported by experiment. • Explains outcome when hypothesis is not supported by experiment.	**Meets 1 criteria** • Explains outcome when hypothesis is supported by experiment. • Explains outcome when hypothesis is not supported by experiment. • Provides at least 2 testable questions for the dog's owner that would help support or disprove the proposed hypothesis used for experiment.	**Does not meet any criteria.**
Criteria 5 (10%)	**Level IV Max Points Points: 9.00**	**Level III Max Points Points: 8.01**	**Level II Max Points Points: 7.11**	**Level I Max Points Points: 6.21**	**0 Points**

Assignment Criteria	Level IV	Level III	Level II	Level I	Not Present
Analysis of Alternative Hypothesis	**Meets all criteria** • Correctly identifies the neighbor's alternative hypothesis as testable or not testable. • Provides critique of neighbor's alternative hypothesis referring to specific aspects of the hypothesis as written. • Uses scientific method in critique of testability.	**The following is true** • Correctly identifies the neighbor's alternative hypothesis as testable or not testable. **And meets 1 criteria** • Provides critique of neighbor's alternative hypothesis referring to specific aspects of the hypothesis as written. • Uses scientific method in critique of testability.	**Meets 1 criteria** • Correctly identifies the neighbor's alternative hypothesis as testable or not testable. • Provides critique of neighbor's alternative hypothesis referring to specific aspects of the hypothesis as written. • Uses scientific method in critique of testability.	**The following is true** • Incorrectly identifies testability of neighbor's alternative hypothesis. • Critique of neighbor's alternative hypothesis made. • No reference to scientific method is used in critique of alternative hypothesis or testability.	**Does not meet any criteria.**
Criteria 6 (10%)	**Level IV Max Points Points: 9.00**	**Level III Max Points Points: 8.01**	**Level II Max Points Points: 7.11**	**Level I Max Points Points: 6.21**	**0 Points**
APA Style	**Meets all criteria** • Applies APA style to in-text citations and references with minor to no errors. • Resources are from reliable and/or scholarly sources. • Uses language generally appropriate to the writing context.	**Meets 3 criteria** • Applies APA style to in-text citations with minor errors. • Applies APA style to references, with minor errors. • Resources are from reliable and/or scholarly sources. • Uses language generally appropriate to the writing context.	**Meets 2 criteria** • Applies APA style to in-text citations with minor errors. • Applies APA style to references, with minor errors. • Resources are from reliable and/or scholarly sources. • Uses language generally appropriate to the writing context.	**Meets 1 criteria** • Applies APA style to in-text citations with minor errors. • Applies APA style to references, with minor errors. • Resources are from reliable and/or scholarly sources. • Uses language generally appropriate to the writing context.	**Does not meet any criteria.**
Criteria 7 (10%)	**Level IV Max Points Points: 9.00**	**Level III Max Points Points: 8.01**	**Level II Max Points Points: 7.11**	**Level I Max Points Points: 6.21**	**0 Points**

Assignment Criteria	Level IV	Level III	Level II	Level I	Not Present
Writing Conventions	**Meets all criteria** ● Writing is focused, concise and organized. ● Articulates at a college level with sentence variety and complexity. ● Few or no grammar or punctuation errors. ● Uses non-offensive, inclusive and respectful language. ● Minimum of 3 sources.	**Required** ● Minimum of 3 sources. **And Meets 3 criteria** ● Writing is focused, concise and organized. ● Articulates at a college level with sentence variety and complexity. ● Few or no grammar or punctuation errors. ● Uses non-offensive, inclusive and respectful language.	**Required** ● Minimum of 2 sources. **And Meets 3 criteria** ● Writing is focused, concise and organized. ● Articulates at a college level with sentence variety and complexity. ● Few or no grammar or punctuation errors. ● Uses non-offensive, inclusive and respectful language.	**Required** Minimum of 2 sources **And meets 2 criteria** ● Writing is focused, concise and organized. ● Articulates at a college level with sentence variety and complexity. ● Few or no grammar or punctuation errors. ● Uses non-offensive, inclusive and respectful language.	**Does not meet any criteria.**
Criteria 8 (10%)	**Level IV Max Points Points: 9.00**	**Level III Max Points Points: 8.01**	**Level II Max Points Points: 7.11**	**Level I Max Points Points: 6.21**	**0 Points**
PowerPoint Presentation	**Meets all criteria** ● PowerPoint presentation is readable, with proper use of font size. ● Speaker notes included to provide what would be said when viewing the side. ● Title slide included. ● Reference slide included. ● Slides are concise without full paragraphs of text.	**The following is true** ● PowerPoint presentation is readable. **And meets 3 criteria** ● Speaker notes included to provide what would be said when viewing the side. ● Title slide included. ● Reference slide included. ● Slides are concise without full paragraphs of text.	**The following is true** ● PowerPoint presentation is readable. **And meets 2 criteria** ● Speaker notes included to provide what would be said when viewing the side. ● Title slide included. ● Reference slide included. ● Slides are concise without full paragraphs of text.	**The following is true** ● PowerPoint presentation is readable. **And Meets 1 criteria** ● Speaker notes included to provide what would be said when viewing the side. ● Title slide included. ● Reference slide included. ● Slides are concise without full paragraphs of text.	**Does not meet any criteria.**
Maximum Total Points	(100%) 90.00	(89%) 80.10	(79%) 71.10	(69%) 62.10	0

Assignment Criteria	Level IV	Level III	Level II	Level I	Not Present
Minimum Total Points	81.00 points minimum	72.00 points minimum	63.00 points minimum	1 point minimum	0

SC200 Unit 4 Assignment Rubric

SC200-2: Compare and contrast discipline-specific scientific concepts.

GEL-1.02: Demonstrate college-level communication through the composition of original materials in Standard   English.

Assignment Criteria	Level IV	Level III	Level II	Level I	Not Present
Criteria 1 (10%)	**Level IV Max Points Points: 9.00**	**Level III Max Points Points: 8.01**	**Level II Max Points Points: 7.11**	**Level I Max Points Points: 6.21**	**0 Points**
Energy Self-assessment	**Meets all criteria** Correctly identifies the energy source(s) used • To heat home • To cool home • To run household appliances • For transportation	**Meets all criteria** Correctly identifies the energy source(s) used for 3 of the following: • To heat home • To cool home • To run household appliances • For transportation	**Meets all criteria** Correctly identifies the energy source(s) used for 2 of the following: • To heat home • To cool home • To run household appliances • For transportation	**Meets all criteria** Correctly identifies the energy source(s) used for 1 of the following: • To heat home • To cool home • To run household appliances • For transportation	**Does not meet any criteria.**
Criteria 2 (10%)	**Level IV Max Points Points: 9.00**	**Level III Max Points Points: 8.01**	**Level II Max Points Points: 7.11**	**Level I Max Points Points: 6.21**	**0 Points**
Renewable or Nonrenewable Classification	**Meets all criteria** Correctly identifies as renewable or nonrenewable the energy source(s) used • To heat home • To cool home • To run household appliances • For transportation	**Meets all criteria** Correctly identifies as renewable or nonrenewable the energy source(s) used for 3 of the following: • To heat home • To cool home • To run household appliances • For transportation	**Meets all criteria** Correctly identifies as renewable or nonrenewable the energy source(s) used for 2 of the following: • To heat home • To cool home • To run household appliances • For transportation	**Meets all criteria** Correctly identifies as renewable or nonrenewable the energy source(s) used for 1 of the following: • To heat home • To cool home • To run household appliances • For transportation	**Does not meet any criteria.**
Criteria 3 (10%)	**Level IV Max Points Points: 9.00**	**Level III Max Points Points: 8.01**	**Level II Max Points Points: 7.11**	**Level I Max Points Points: 6.21**	**0 Points**

Assignment Criteria	Level IV	Level III	Level II	Level I	Not Present
Renewable Energy Analysis	**Meets all criteria** • Identifies the most appropriate renewable energy source for area. • Explains why the renewable energy source is most appropriate for the location of choice. • Identifies the least appropriate energy source for area. • Explains why the renewable energy source is least appropriate for the location of choice.	**Meets 3 criteria** • Identifies the most appropriate renewable energy source for area. • Explains why the renewable energy source is most appropriate for the location of choice. • Identifies the least appropriate energy source for area. • Explains why the renewable energy source is least appropriate for the location of choice.	**Meets 2 criteria** • Identifies the most appropriate renewable energy source for area. • Explains why the renewable energy source is most appropriate for the location of choice. • Identifies the least appropriate energy source for area. • Explains why the renewable energy source is least appropriate for the location of choice.	**Meets 1 criteria** • Identifies the most appropriate renewable energy source for area. • Explains why the renewable energy source is most appropriate for the location of choice. • Identifies the least appropriate energy source for area. • Explains why the renewable energy source is least appropriate for the location of choice.	**Does not meet any criteria.**
Criteria 4 (15%)	**Level IV Max Points Points: 13.50**	**Level III Max Points Points: 12.015**	**Level II Max Points Points: 10.665**	**Level I Max Points Points: 9.315**	**0 Points**
Energy Comparison: Current Sources	**Meets all criteria** For the current energy sources discusses: • Economic costs • Economic benefits • Ecological costs • Ecological benefits	**Meets all criteria** For the current energy sources discusses 3 of the following: • Economic costs • Economic benefits • Ecological costs • Ecological benefits	**Meets all criteria** For the current energy sources discusses 2 of the following: • Economic costs • Economic benefits • Ecological costs • Ecological benefits	**Meets all criteria** For the current energy sources discusses 1 of the following: • Economic costs • Economic benefits • Ecological costs • Ecological benefits	**Does not meet any criteria.**
Criteria 5 (10%)	**Level IV Max Points Points: 9.00**	**Level III Max Points Points: 8.01**	**Level II Max Points Points: 7.11**	**Level I Max Points Points: 6.21**	**0 Points**

Assignment Criteria	Level IV	Level III	Level II	Level I	Not Present
Energy Comparison: Renewable Source 1	**Meets all criteria** For the most appropriate renewable energy source discusses: • Economic costs • Economic benefits • Ecological costs • Ecological benefits	**Meets all criteria** For the most appropriate renewable energy source discusses 3 of the following**:** • Economic costs • Economic benefits • Ecological costs • Ecological benefits	**Meets all criteria** For the most appropriate renewable energy source discusses 2 of the following: • Economic costs • Economic benefits • Ecological costs • Ecological benefits	**Meets all criteria** For the most appropriate renewable energy source discusses 1 of the following: • Economic costs • Economic benefits • Ecological costs • Ecological benefits	**Does not meet any criteria.**
Criteria 6 (10%)	**Level IV Max Points Points: 9.00**	**Level III Max Points Points: 8.01**	**Level II Max Points Points: 7.11**	**Level I Max Points Points: 6.21**	**0 Points**
Energy Comparison: Renewable Source 2	**Meets all criteria** For the least appropriate renewable energy source discusses: • Economic costs • Economic benefits • Ecological costs • Ecological benefits	**Meets all criteria** For the least appropriate renewable energy source discusses 3 of the following**:** • Economic costs • Economic benefits • Ecological costs • Ecological benefits	**Meets all criteria** For the least appropriate renewable energy source discusses 2 of the following: • Economic costs • Economic benefits • Ecological costs • Ecological benefits	**Meets all criteria** For the least appropriate renewable energy source discusses 1 of the following: • Economic costs • Economic benefits • Ecological costs • Ecological benefits	**Does not meet any criteria.**
Criteria 7 (15%)	**Level IV Max Points Points: 13.50**	**Level III Max Points Points: 12.015**	**Level II Max Points Points: 10.665**	**Level I Max Points Points: 9.315**	**0 Points**
Final Argument on Energy Use in the US	**The following is true:** Provides an argument for or against the US pursuing the use of more renewable energy sources using a minimum of 3 supported reasons.	**The following is true:** Provides an argument for or against the US pursuing the use of more renewable energy sources using a minimum of 2 supported reasons.	**The following is true:** Provides an argument for or against the US pursuing the use of more renewable energy sources using a minimum of 1 supported reason.	**The following is true:** Takes a side for or against the US pursuing the use of more renewable energy sources.	**Does not meet any criteria.**
Criteria 8 (10%)	**Level IV Max Points Points: 9.00**	**Level III Max Points Points: 8.01**	**Level II Max Points Points: 7.11**	**Level I Max Points Points: 6.21**	**0 Points**

Assignment Criteria	Level IV	Level III	Level II	Level I	Not Present
APA Style	**Meets all criteria** • Applies APA style to in-text citations and references with minor to no errors. • APA format is applied to body of paper. • Resources are from reliable and/or scholarly sources. • Uses language generally appropriate to the writing context.	**Meets 3-4 criteria** • APA format is applied to body of paper. • Applies APA style to in-text citations with minor errors. • Applies APA style to references, with minor errors. • Resources are from reliable and/or scholarly sources. • Uses language generally appropriate to the writing context.	**Meets 2 criteria** • APA format is applied to body of paper. • Applies APA style to in-text citations with minor errors. • Applies APA style to references, with minor errors. • Resources are from reliable and/or scholarly sources. • Uses language generally appropriate to the writing context.	**Meets 1 criteria** • APA format is applied to body of paper. • Applies APA style to in-text citations with minor errors. • Applies APA style to references, with minor errors. • Resources are from reliable and/or scholarly sources. • Uses language generally appropriate to the writing context.	**Does not meet any criteria.**
Criteria 9 (10%)	**Level IV Max Points Points: 9.00**	**Level III Max Points Points: 8.01**	**Level II Max Points Points: 7.11**	**Level I Max Points Points: 6.21**	**0 Points**

Assignment Criteria	Level IV	Level III	Level II	Level I	Not Present
Writing Conventions	**Meets all criteria** • At least 1000 words not including title, or reference pages. • Include a reference page and use a minimum of five sources. • Writing is focused, concise and organized. • Articulates at a college level with sentence variety and complexity. • Few or no grammar or punctuation errors. • Uses non-offensive, inclusive and respectful language. • Be original with no more than 10% taken verbatim from any outside sources.	**The following is true:** • At least 1000 words not including title, or reference pages. • Includes a minimum of 4 sources. **And meets 4 criteria** • Writing is focused, concise and organized. • Articulates at a college level with sentence variety and complexity. • Few or no grammar or punctuation errors. • Uses non-offensive, inclusive and respectful language. • Be original with no more than 10% taken verbatim from any outside sources.	**The following is true:** • At least 750 words not including title, or reference pages. • Includes a minimum of 2 sources. **And meets 4 criteria** • Writing is focused, concise and organized. • Articulates at a college level with sentence variety and complexity. • Few or no grammar or punctuation errors. • Uses non-offensive, inclusive and respectful language. • Be original with no more than 10% taken verbatim from any outside sources.	**The following is true:** • At least 650 words not including the title, or reference pages. • Includes at least 1 source. **And meets 3 criteria** • Writing is focused, concise and organized. • Articulates at a college level with sentence variety and complexity. • Few or no grammar or punctuation errors. • Uses non-offensive, inclusive and respectful language. • Be original with no more than 10% taken verbatim from any outside sources.	**Does not meet any criteria.**
Maximum Total Points	(100%) 90.00	(89%) 80.10	(79%) 71.10	(69%) 62.10	0
Minimum Total Points	81.00 points minimum	72.00 points minimum	63.00 points minimum	1 point minimum	0

SC200 Unit 6 Assignment Rubric

SC200-3: Employ appropriate scientific ideas and methods to everyday situations.

Assignment Criteria	Level IV	Level III	Level II	Level I	Not Present
Criteria 1 (20%)	**Level IV Max Points Points: 18.00**	**Level III Max Points Points: 16.02**	**Level II Max Points Points: 14.22**	**Level I Max Points Points: 12.42**	**0 Points**
Data Collection Food Item 1	**Meets all criteria** • Correctly indicates where item from the list originates. • Calculates the distance the item travelled from origin to table. • Correctly indicates if the item is local based on the 100-mile limit. • Provides a local alternative for non-local items. • Lists a minimum of 4 energy inputs that humans must provide to grow, package/prepare, and transport the item from origin to table.	**Meets 4 criteria** • Correctly indicates item from the list originates. • Calculates the distance the item travelled from origin to table. • Correctly indicates if the item is local based on the 100-mile limit. • Provides a local alternative for non-local items. • Lists a minimum of 3 energy inputs that humans must provide to grow, package/prepare, and transport the item from origin to table.	**Meets 3 criteria** • Correctly indicates where item from the list originates. • Calculates the distance the item travelled from origin to table. • Correctly indicates if the item is local based on the 100-mile limit. • Provides a local alternative for non-local items. • Lists a minimum of 2 energy inputs that humans must provide to grow, package/prepare, and transport the item from origin to table.	**Meets 2 criteria** • Correctly indicates where item from the list originates. • Calculates the distance the item travelled from origin to table. • Correctly indicates if the item is local based on the 100-mile limit. • Provides a local alternative for non-local items. • Lists a minimum of 1 energy input that humans must provide to grow, package/prepare, and transport the item from origin to table.	**Does not meet any criteria.**
Criteria 2 (20%)	**Level IV Max Points Points: 18.00**	**Level III Max Points Points: 16.02**	**Level II Max Points Points: 14.22**	**Level I Max Points Points: 12.42**	**0 Points**

Assignment Criteria	Level IV	Level III	Level II	Level I	Not Present
Data Collection Food Item 2	**Meets all criteria** • Correctly indicates where item from the list originates. • Calculates the distance the item travelled from origin to table. • Correctly indicates if the item is local based on the 100-mile limit. • Provides a local alternative for non-local items. • Lists a minimum of 4 energy inputs that humans must provide to grow, package/prepare, and transport the item from origin to table.	**Meets 4 criteria** • Correctly indicates item from the list originates. • Calculates the distance the item travelled from origin to table. • Correctly indicates if the item is local based on the 100-mile limit. • Provides a local alternative for non-local items. • Lists a minimum of 3 energy inputs that humans must provide to grow, package/prepare, and transport the item from origin to table.	**Meets 3 criteria** • Correctly indicates where item from the list originates. • Calculates the distance the item travelled from origin to table. • Correctly indicates if the item is local based on the 100-mile limit. • Provides a local alternative for non-local items. • Lists a minimum of 2 energy inputs that humans must provide to grow, package/prepare, and transport the item from origin to table.	**Meets 2 criteria** • Correctly indicates where item from the list originates. • Calculates the distance the item travelled from origin to table. • Correctly indicates if the item is local based on the 100-mile limit. • Provides a local alternative for non-local items. • Lists a minimum of 1 energy input that humans must provide to grow, package/prepare, and transport the item from origin to table.	**Does not meet any criteria.**
Criteria 3 (20%)	**Level IV Max Points Points: 18.00**	**Level III Max Points Points: 16.02**	**Level II Max Points Points: 14.22**	**Level I Max Points Points: 12.42**	**0 Points**

Assignment Criteria	Level IV	Level III	Level II	Level I	Not Present
Data Analysis Part I	**Meets all criteria** • Identifies impacts that food choices have on the environment. • Discusses impacts that food choices have on the environment. • Identifies impacts that food choices have on the economy. • Discusses impacts that food choices have on the economy.	**Meets 3 criteria** • Identifies impacts that food choices have on the environment. • Discusses impacts that food choices have on the environment. • Identifies impacts that food choices have on the economy. • Discusses impacts that food choices have on the economy.	**Meets 2 criteria** • Identifies impacts that food choices have on the environment. • Discusses impacts that food choices have on the environment. • Identifies impacts that food choices have on the economy. • Discusses impacts that food choices have on the economy.	**Meets 1 criteria** • Identifies impacts that food choices have on the environment. • Discusses impacts that food choices have on the environment. • Identifies impacts that food choices have on the economy. • Discusses impacts that food choices have on the economy.	**Does not meet any criteria.**
Criteria 4 (10%)	**Level IV Max Points Points: 9.00**	**Level III Max Points Points: 8.01**	**Level II Max Points Points: 7.11**	**Level I Max Points Points: 6.21**	**0 Points**
Data Analysis Part II Advantages	**Meets all criteria** Discusses 2 advantages to purchasing food that is locally sourced versus those shipped from other areas of the country and from around the world.	**Meets all criteria** Discusses 1 advantage to purchasing food that is locally sourced versus those shipped from other areas of the country and from around the world.	**Meets all criteria** Lists 2 advantages to purchasing food that is locally sourced (does not provide discussion.)	**Meets all criteria** Lists 1 advantage to purchasing food that is locally sourced (does not provide discussion.)	**Does not meet any criteria.**
Criteria 5 (10%)	**Level IV Max Points Points: 9.00**	**Level III Max Points Points: 8.01**	**Level II Max Points Points: 7.11**	**Level I Max Points Points: 6.21**	**0 Points**
Data Analysis Part II Disadvantages	**Meets all criteria** Discusses 2 disadvantages to purchasing food that is locally sourced versus those shipped from other areas of the country and from around the world.	**Meets all criteria** Discusses 1 disadvantage to purchasing food that is locally sourced versus those shipped from other areas of the country and from around the world.	**Meets all criteria** Lists 2 disadvantages to purchasing food that is locally sourced (does not provide discussion.)	**Meets all criteria** Lists 1 disadvantage to purchasing food that is locally sourced (does not provide discussion.)	**Does not meet any criteria.**

Assignment Criteria	Level IV	Level III	Level II	Level I	Not Present
Criteria 6 (10%)	**Level IV Max Points Points: 9.00**	**Level III Max Points Points: 8.01**	**Level II Max Points Points: 7.11**	**Level I Max Points Points: 6.21**	**0 Points**
APA Style	**Meets all criteria** • Applies APA style to in-text citations and references with minor to no errors. • APA format is applied to body of paper. • Resources are from reliable and/or scholarly sources. • Uses language generally appropriate to the writing context.	**Meets 4 criteria** • APA format is applied to body of paper. • Applies APA style to in-text citations with minor errors. • Applies APA style to references, with minor errors. • Resources are from reliable and/or scholarly sources. • Uses language generally appropriate to the writing context.	**Meets 3 criteria** • APA format is applied to body of paper. • Applies APA style to in-text citations with minor errors. • Applies APA style to references, with minor errors. • Resources are from reliable and/or scholarly sources. • Uses language generally appropriate to the writing context.	**Meets 2 criteria** • APA format is applied to body of paper. • Applies APA style to in-text citations with minor errors. • Applies APA style to references, with minor errors. • Resources are from reliable and/or scholarly sources. • Uses language generally appropriate to the writing context.	**Does not meet any criteria.**
Criteria 7 (10%)	**Level IV Max Points Points: 9.00**	**Level III Max Points Points: 8.01**	**Level II Max Points Points: 7.11**	**Level I Max Points Points: 6.21**	**0 Points**

Assignment Criteria	Level IV	Level III	Level II	Level I	Not Present
Writing Conventions	**Meets all criteria** • At least 300 words not including questions or references. • Use a minimum of 3 sources (at least one from the PG Library.) • Writing is focused, concise and organized. • Articulates at a college level with sentence variety and complexity. • Few or no grammar or punctuation errors. • Uses non-offensive, inclusive and respectful language. • Answers are in complete sentences except when specifically asked for a list. • Be original with no more than 10% taken verbatim from any outside sources.	**Required** • At least 300 words not including questions or references. • Use a minimum of 3 sources. **And meets 5 criteria** • Writing is focused, concise and organized. • Articulates at a college level with sentence variety and complexity. • Few or no grammar or punctuation errors. • Uses non-offensive, inclusive and respectful language. • Answers are in complete sentences except when specifically asked for a list. • Be original with no more than 10% taken verbatim from any outside sources.	**Required** • At least 250 words not including questions or reference. • Use a minimum of 2 sources. **And meets 4 criteria** • Writing is focused, concise and organized. • Articulates at a college level with sentence variety and complexity. • Few or no grammar or punctuation errors. • Uses non-offensive, inclusive and respectful language. • Answers are in complete sentences except when specifically asked for a list. • Be original with no more than 10% taken verbatim from any outside sources.	**Required** • At least 200 words not including questions or reference. • Use at least 1 source. **And meets 4 criteria** • Writing is focused, concise and organized. • Articulates at a college level with sentence variety and complexity. • Few or no grammar or punctuation errors. • Uses non-offensive, inclusive and respectful language. • Answers are in complete sentences except when specifically asked for a list. • Be original with no more than 10% taken verbatim from any outside sources.	**Does not meet any criteria.**
Maximum Total Points	(100%) 90.00	(89%) 80.10	(79%) 71.10	(69%) 62.10	0
Minimum Total Points	81.00 points minimum	72.00 points minimum	63.00 points minimum	1 point minimum	0

SC200 Unit 8 Assignment Rubric

SC200-4: Analyze how technology has driven scientific progress throughout   history.

Assignment Criteria	Level IV	Level III	Level II	Level I	Not Present
Criteria 1 (20%)	**Level IV Max Points Points: 18.00**	**Level III Max Points Points: 16.02**	**Level II Max Points Points: 14.22**	**Level I Max Points Points: 12.42**	**0 Points**
Identifies a biotechnology	**Meets all criteria** • Correctly identifies a biotechnology. • Explanation of the biotechnology includes why it is classified as a biotechnology. • Explains how the biotechnology is used.	**The following is true:** • Correctly identifies a biotechnology. **And meets 1 criteria** • Explanation of the biotechnology includes why it is classified as a biotechnology. • Explains how the biotechnology is used.	**The following is true:** • Correctly identifies a biotechnology. **And meets 1 criteria** • Explains what the technology is. • Explains how the technology is used.	**The following is true:** • Identifies a technology. **And meets 1 criteria** • Explains what the technology is. • Explains how the technology is used.	**Does not meet any criteria.**
Criteria 2 (20%)	**Level IV Max Points Points: 18.00**	**Level III Max Points Points: 16.02**	**Level II Max Points Points: 14.22**	**Level I Max Points Points: 12.42**	**0 Points**

Assignment Criteria	Level IV	Level III	Level II	Level I	Not Present
Scientific Discoveries	**Meets all criteria** • Correctly identifies 2 scientific discoveries that needed to take place before the biotechnology could be developed. • Describes 2 scientific discoveries that needed to take place before the biotechnology could be developed. • Links the 2 scientific discoveries to the chosen biotechnology.	**The following is true:** • Correctly identifies 2 scientific discoveries that needed to take place before the biotechnology could be developed. **And meets 1 criteria** • Describes 2 scientific discoveries that needed to take place before the biotechnology could be developed. • Links the 2 scientific discoveries to the chosen biotechnology.	**Meets all criteria** • Correctly identifies 1 scientific discovery that needed to take place before the biotechnology could be developed. • Describes 1 scientific discoveries that needed to take place before the biotechnology could be developed. • Links the 1 scientific discovery to the chosen biotechnology.	**The following is true:** • Correctly identifies 1 scientific discovery that needed to take place before the biotechnology could be developed. **And meets 1 criteria** • Describes 1 scientific discoveries that needed to take place before the biotechnology could be developed. • Links the 1 scientific discovery to the chosen biotechnology.	**Does not meet any criteria.**
Criteria 3 (20%)	**Level IV Max Points Points: 18.00**	**Level III Max Points Points: 16.02**	**Level II Max Points Points: 14.22**	**Level I Max Points Points: 12.42**	**0 Points**

Assignment Criteria	Level IV	Level III	Level II	Level I	Not Present
Technological Advances	**Meets all criteria** • Correctly identifies 2 technologies that needed to exist before the biotechnology could be developed. • Describes 2 technologies that needed to exist before the biotechnology could be developed. • Links the 2 technologies to the chosen biotechnology.	**The following is true:** • Correctly identifies 2 technologies that needed to exist before the biotechnology could be developed. **And meets 1 criteria** • Describes 2 technologies that needed to exist before the biotechnology could be developed. • Links the 2 technologies to the chosen biotechnology.	**The following is true:** • Correctly identifies 1 technology that needed to exist before the biotechnology could be developed. **And meets 2 criteria** • Describes 1 technology that needed to exist before the biotechnology or technology could be developed. • Links the 1 technology to the chosen biotechnology or technology.	**The following is true:** • Correctly identifies 1 technology that needed to exist before the biotechnology could be developed. **And meets 1 criteria** • Describes 1 technology that needed to exist before the biotechnology or technology could be developed. • Links the 1 technology to the chosen biotechnology or technology.	**Does not meet any criteria.**
Criteria 4 (20%)	**Level IV Max Points Points: 18.00**	**Level III Max Points Points: 16.02**	**Level II Max Points Points: 14.22**	**Level I Max Points Points: 12.42**	**0 Points**

Assignment Criteria	Level IV	Level III	Level II	Level I	Not Present
Pros and Cons of Biotechnology	**Meets all criteria** • Identifies and discusses 2 positives of biotechnological advances. • Identifies and discusses 2 negatives of biotechnological advances. • Identifies if there are any specific biotechnologies that should not be pursued or if there should be no limitations. • Explains why the identified biotechnologies should not be pursued or why there should not be any limitations put on biotechnological advances.	**Meets 3 criteria** • Identifies and discusses 2 positives of biotechnological advances. • Identifies and discusses 2 negatives of biotechnological advances. • Identifies any specific biotechnologies that should not be pursued or if there should be no limitations. • Explains why the identified biotechnologies should not be pursued or why there should not be any limitations put on biotechnological advances.	**Meets 4 criteria** • Identifies 2 positives of biotechnological advances. • Discusses 2 positives of biotechnological advances. • Identifies 2 negatives of biotechnological advances. • Discusses 2 negatives of biotechnological advances. • Identifies if there are any specific biotechnologies that should not be pursued or if there should be no limitations. • Explains why the identified biotechnologies should not be pursued or why there should not be any limitations put on biotechnological advances.	**Meets 4 criteria** • Identifies 1 positive of biotechnological advances. • Discusses 1 positive of biotechnological advances. • Identifies 1 negative of biotechnological advances. • Discusses 1 negative of biotechnological advances. • Identifies if there are any specific biotechnologies that should not be pursued or if there should be no limitations. • Explains why the identified biotechnologies should not be pursued or why there should not be any limitations put on biotechnological advances.	**Does not meet any criteria.**
Criteria 5 (10%)	**Level IV Max Points** **Points: 9.00**	**Level III Max Points** **Points: 8.01**	**Level II Max Points** **Points: 7.11**	**Level I Max Points** **Points: 6.21**	**0 Points**

Assignment Criteria	Level IV	Level III	Level II	Level I	Not Present
APA Style	**Meets all criteria** • Applies APA style to in-text citations and references with minor to no errors. • Resources are from reliable and/or scholarly sources. • Uses language generally appropriate to the writing context.	**Meets 3 criteria** • Applies APA style to in-text citations with minor errors. • Applies APA style to references, with minor errors. • Resources are from reliable and/or scholarly sources. • Uses language generally appropriate to the writing context.	**Meets 2 criteria** • Applies APA style to in-text citations with minor errors. • Applies APA style to references, with minor errors. • Resources are from reliable and/or scholarly sources. • Uses language generally appropriate to the writing context.	**Meets 1 criteria** • Applies APA style to in-text citations with minor errors. • Applies APA style to references, with minor errors. • Resources are from reliable and/or scholarly sources. • Uses language generally appropriate to the writing context.	**Does not meet any criteria.**
Criteria 6 (10%)	**Level IV Max Points** **Points: 9.00**	**Level III Max Points** **Points: 8.01**	**Level II Max Points** **Points: 7.11**	**Level I Max Points** **Points: 6.21**	**0 Points**

Assignment Criteria	Level IV	Level III	Level II	Level I	Not Present
Writing Conventions	**Meets all criteria** ● At least 300 words not including instructions, questions, or references. ● Minimum of 4 sources (at least one from the PG library.) ● Writing is focused, concise and organized. ● Articulates at a college level with sentence variety and complexity. ● Few or no grammar or punctuation errors. ● Uses non-offensive, inclusive and respectful language. ● Be original with no more than 10% taken verbatim from any outside sources.	**The following is true:** ● At least 300 words not including instructions, questions, or references. ● Minimum of 3 sources. **And meets 4 criteria** ● Writing is focused, concise and organized. ● Articulates at a college level with sentence variety and complexity. ● Few or no grammar or punctuation errors. ● Uses non-offensive, inclusive and respectful language. ● Be original with no more than 10% taken verbatim from any outside sources.	**The following is true:** ● At least 250 words not including instructions, questions, or references. ● Minimum of 2 sources. **And meets 4 criteria** ● Writing is focused, concise and organized. ● Articulates at a college level with sentence variety and complexity. ● Few or no grammar or punctuation errors. ● Uses non-offensive, inclusive and respectful language. ● Be original with no more than 10% taken verbatim from any outside sources.	**The following is true:** ● At least 200 words not including instructions, questions, or references. **And meets 4 criteria** ● Writing is focused, concise and organized. ● Articulates at a college level with sentence variety and complexity. ● Few or no grammar or punctuation errors. ● Uses non-offensive, inclusive and respectful language. ● Be original with no more than 10% taken verbatim from any outside sources. ● Use a minimum of 1 source.	**Does not meet any criteria.**
Maximum Total Points	(100%) 90.00	(89%) 80.10	(79%) 71.10	(69%) 62.10	0
Minimum Total Points	81.00 points minimum	72.00 points minimum	63.00 points minimum	1 point minimum	0

SC200 Unit 9 Assignment Rubric

SC200-5: Evaluate how science affects your personal and professional life.

PC-4.1: Assess the value of multiculturalism and diversity in a global environment.

Assignment Criteria	Level IV	Level III	Level II	Level I	Not Present
Criteria 1 (20%)	**Level IV Max Points Points: 18.00**	**Level III Max Points Points: 16.02**	**Level II Max Points Points: 14.22**	**Level I Max Points Points: 12.42**	**0 Points**
Impact of technology on society	**Meets all criteria** ● Lists 4 different technologies used throughout the day. ● Discusses the negative impacts of the 4 technologies on: - their life - society - the environment	**The following is true** Lists 4 different technologies used throughout the day. **And meets 2 criteria** • Discusses the negative impacts of the 4 technologies on their life. • Discusses the negative impacts of the 4 technologies on society. • Discusses the negative impacts of the 4 technologies on the environment.	**The following is true** • Lists 2-3 different technologies used throughout the day. **And meets 2 criteria** • Discusses the negative impacts of the 2-3 technologies on their life. • Discusses the negative impacts of the 2-3 technologies on society. • Discusses the negative impacts of the 2-3 technologies on the environment.	**The following is true** • Lists 2-3 different technologies used throughout the day. **And Meets 1 criteria** • Discusses the negative impacts of the 2-3 technologies on their life. • Discusses the negative impacts of the 2-3 technologies on society. • Discusses the negative impacts of the 2-3 technologies on the environment.	**Does not meet any criteria.**
Criteria 2 (20%)	**Level IV Max Points Points: 18.00**	**Level III Max Points Points: 16.02**	**Level II Max Points Points: 14.22**	**Level I Max Points Points: 12.42**	**0 Points**

Assignment Criteria	Level IV	Level III	Level II	Level I	Not Present
Impact of science on society	**Meets all criteria** • Describes a scientific discovery that was necessary for modern life to be possible. • Lists negative impacts of this discovery. • Lists negative technologies developed based on this scientific discovery. • Lists positive impacts of this discovery. • Lists positive technologies developed based on this scientific discovery. • Evaluates the overall positive or negative impact of the discovery.	**The following is true** • Describes a scientific discovery that was necessary for modern life to be possible. **And meets 4 criteria** • Lists negative impacts of this discovery. • Lists negative technologies developed based on this scientific discovery. • Lists positive impacts of this discovery. • Lists positive technologies developed based on this scientific discovery. • Evaluates the overall positive or negative impact of the discovery.	**The following is true** • Describes a scientific discovery that was necessary for modern life to be possible. **And meets 3 criteria** • Lists negative impacts of this discovery or technology. • Lists negative technologies developed based on this scientific discovery or technology. • Lists positive impacts of this discovery or technology. • Lists positive technologies developed based on this scientific discovery or technology. • Evaluates the overall positive or negative impact of the discovery or technology.	**The following is true** • Describes a scientific discovery **or** technology that was necessary for modern life to be possible. **And meets 2 criteria** • Lists negative impacts of this discovery or technology. • Lists negative technologies developed based on this scientific discovery or technology. • Lists positive impacts of this discovery or technology. • Lists positive technologies developed based on this scientific discovery or technology. • Evaluates the overall positive or negative impact of the discovery or technology.	**Does not meet any criteria.**
Criteria 3 (20%)	**Level IV Max Points Points: 18.00**	**Level III Max Points Points: 16.02**	**Level II Max Points Points: 14.22**	**Level I Max Points Points: 12.42**	**0 Points**

Assignment Criteria	Level IV	Level III	Level II	Level I	Not Present
Different approaches to medical treatment	**Meets all criteria** ● Discusses one advantage and one disadvantage of a high-tech research approach to medical treatment. ● Discusses one advantage and one disadvantage of using traditional medicine approach to medical treatment.	**Meets 3 criteria** ● Discusses one advantage of a high-tech research approach to medical treatment. ● Discusses one disadvantage of a high-tech research approach to medical treatment. ● Discusses one advantage of using traditional medicine approach to medical treatment. ● Discusses one disadvantage of using traditional medicine approach to medical treatment.	**Meets 2 criteria** ● Discusses one advantage of a high-tech research approach to medical treatment. ● Discusses one disadvantage of a high-tech research approach to medical treatment. ● Discusses one advantage of using traditional medicine approach to medical treatment. ● Discusses one disadvantage of using traditional medicine approach to medical treatment.	**Meets 1 criteria** ● Discusses one advantage of a high-tech research approach to medical treatment. ● Discusses one disadvantage of a high-tech research approach to medical treatment. ● Discusses one advantage of using traditional medicine approach to medical treatment. ● Discusses one disadvantage of using traditional medicine approach to medical treatment.	**Does not meet any criteria.**
Criteria 4 (20%)	**Level IV Max Points** **Points: 18.00**	**Level III Max Points** **Points: 16.02**	**Level II Max Points** **Points: 14.22**	**Level I Max Points** **Points: 12.42**	**0 Points**

Assignment Criteria	Level IV	Level III	Level II	Level I	Not Present
Science and technology in a multicultural world	**Meets all criteria** • Discusses if there are benefits to having multicultural approaches to medical treatment. • Discusses if the two cultural approaches could be improved by drawing upon each other. • Discusses challenges associated with combining aspects of a high-tech and traditional medicine approach to improve medical care overall.	**Meets 2 criteria** • Discusses if there are benefits to having multicultural approaches to medical treatment. • Discusses if the two cultural approaches could be improved by drawing upon each other. • Discusses challenges associated with combining aspects of a high-tech and traditional medicine approach to improve medical care overall.	**Meets 1 criteria** • Discusses if there are benefits to having multicultural approaches to medical treatment. • Discusses if the two cultural approaches could be improved by drawing upon each other. • Discusses challenges associated with combining aspects of a high-tech and traditional medicine approach to improve medical care overall.	**Meets 2 criteria** • Identifies if there are benefits to having multicultural approaches to medical treatment. • Identifies if the two cultural approaches could be improved by drawing upon each other. • Identifies challenges associated with combining aspects of a high-tech and traditional medicine approach to improve medical care overall.	**Does not meet any criteria.**
Criteria 5 (10%)	**Level IV Max Points Points: 9.00**	**Level III Max Points Points: 8.01**	**Level II Max Points Points: 7.11**	**Level I Max Points Points: 6.21**	**0 Points**

Assignment Criteria	Level IV	Level III	Level II	Level I	Not Present
APA Style	**Meets all criteria** • Applies APA style to in-text citations and references with minor to no errors. • APA format is applied to body of paper. • Resources are from reliable and/or scholarly sources. • Uses language generally appropriate to the writing context.	**Meets 4 criteria** • APA format is applied to body of paper. • Applies APA style to in-text citations with minor errors. • Applies APA style to references, with minor errors. • Resources are from reliable and/or scholarly sources. • Uses language generally appropriate to the writing context.	**Meets 3 criteria** • APA format is applied to body of paper. • Applies APA style to in-text citations with minor errors. • Applies APA style to references, with minor errors. • Resources are from reliable and/or scholarly sources. • Uses language generally appropriate to the writing context.	**Meets 2 criteria** • APA format is applied to body of paper. • Applies APA style to in-text citations with minor errors. • Applies APA style to references, with minor errors. • Resources are from reliable and/or scholarly sources. • Uses language generally appropriate to the writing context.	**Does not meet any criteria.**
Criteria 6 (10%)	**Level IV Max Points** **Points: 9.00**	**Level III Max Points** **Points: 8.01**	**Level II Max Points** **Points: 7.11**	**Level I Max Points** **Points: 6.21**	**0 Points**

Assignment Criteria	Level IV	Level III	Level II	Level I	Not Present
Writing Conventions	**Meets all criteria** □ At least 1000 words not counting the instructions, questions, or references. □ Minimum of five sources (with at least one from the PG library.) □ Writing is focused, concise and organized. □ Articulates at a college level with sentence variety and complexity. □ Few or no grammar or punctuation errors. □ Uses non-offensive, inclusive and respectful language. □ Is original with no more than 10% taken verbatim from any outside sources.	**The following is true** □ At least 1000 words not counting the instructions, questions, or references. □ Minimum of 5 sources. **And meets 4 criteria** □ Writing is focused, concise and organized. □ Articulates at a college level with sentence variety and complexity. □ Few or no grammar or punctuation errors. □ Uses non-offensive, inclusive and respectful language. □ Is original with no more than 10% taken verbatim from any outside s ources.	**The following is true** □ At least 850 words not including instructions, questions, or references. □ Minimum of 3 sources. **And meets 3 criteria** □ Writing is focused, concise and organized. □ Articulates at a college level with sentence variety and complexity. □ Few or no grammar or punctuation errors. □ Uses non-offensive, inclusive and respectful language. □ Is original with no more than 10% taken verbatim from any outside sources.	**The following is true** □ At least 600 words not including instructions, questions, or references. □ Minimum of 1 source used. **And meets 3 criteria** □ Writing is focused, concise and organized. □ Articulates at a college level with sentence variety and complexity. □ Few or no grammar or punctuation errors. □ Uses non-offensive, inclusive and respectful language. □ Is original with no more than 10% taken verbatim from any outside sources.	**Does not meet any criteria.**
Maximum Total Points	(100%) 90.00	(89%) 80.10	(79%) 71.10	(69%) 62.10	0
Minimum Total Points	81.00 points minimum	72.00 points minimum	63.00 points minimum	1 point minimum	0