**SNC 2D – Disease and Abnormalities RAFT Research Assignment**

Name:

Instructions

1. Choose options from each column in the RAFT below. Consider your interests, learning preferences, and strengths as you select.

2. Research your topic based on the following questions (Refer to Appendix A for an organizer):

a. What is the disease/abnormality and how does it affect the cells, tissues, organs, and/or systems of the sick person or plant?

b. What are its causes and symptoms and how do they affect cells, tissues, organs, and/or systems?

c. Question of your choice:

3. Check your research sources for reliability. Select reliable sources of information. Document each source. (Refer to Appendix C.)

4. Follow the steps in the research process: initiating and planning, performing and recording, analyzing and interpreting, and communicating. (Refer to Appendix B.)

5. Refine and present the results of your research based on your selected Role, Audience, Format, and Topic.

6. Consider the criteria in the Diseases and Abnormalities RAFT Research Assignment rubric as you complete the RAFT assignment.

**DISEASES AND ABNORMALITIES RAFT**

|  |  |  |  |
| --- | --- | --- | --- |
| **Role** | **Audience** | **Format** | **Topic****(Choose one from A or B)** |
| Healthcare worker | General public | ∙ Presentation software (slides)∙ Journal entry or e-mail∙ Short magazine article or flyer∙ Oral presentation (audio or video recording) | A. Human Disease/Abnormality:stroke, hypertension, colitis, asthma, hemophilia, leukemia, tuberculosis, hepatitis, disease of your choice |
| Someone who has the disease | Friend or family of the diagnosed person |
| Garden centre expert or horticulturist | Avid gardener(s) | B. Plant Disease/Abnormality:wheat rust, apple scab, potato blight, tomato stem necrosis, disease of your choice |
| Crop expert or agricultural researcher | Farmer(s) |

**Disease and Abnormalities Research Assignment Rubric**

Name:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Criteria** | **Level R** | **Level 1** | **Level 2** | **Level 3** | **Level 4** |
| *Knowledge and Understanding* |
|  Knowledge of content (e.g., facts and terminology about the disease, cells, tissues, and organs) | Demonstrates very limited knowledge of content0 1 2 | Demonstrates limited knowledge of content 2.5 2.75 | Demonstrates some knowledge of content 3 3.25 | Demonstrates considerable knowledge of content 3.5 3.75 | Demonstrates a thorough knowledge of content4 4.5 5 |
| Explains connections between the disease or abnormality and cells, tissues, organs, and systems | Explains connections with very limited depth0 2 4 | Explains connections with limited depth 5 5.5 | Explains connections with some depth 6 6.5 | Explains connections with considerable depth 7 7.5 | Explains connections with a high degree of depth8 9 10 |
| *Thinking and Inquiry* |
| Documents a reasonable number of sources using an acceptable form and analyzes sources of information for reliability and bias | Documents sources with very limited accuracy and provides a very limited analysis, or no analysis.0 1 2 | Documents sources with limited accuracy and provides a limited analysis. 2.5 2.75 | Documents sources with some accuracy and provides some analysis. 3 3.25 | Documents sources with considerable accuracy and provides considerable analysis. 3.5 3.75 | Documents sources with a high degree of accuracy and a thorough analysis.4 4.5 5 |
| Selects information relevant to the research question | Selects information of very limited relevance0 1 2 | Selects information of limited relevance 2.5 2.75 | Selects information of some relevance 3 3.25 | Selects information of considerable relevance 3.5 3.75 | Selects information of a high degree of relevance4 4.5 5 |
| *Communication* |
| Expresses and organizes ideas and information | Expresses and organizes ideas and information with very limited effectiveness0 2 4 | Expresses and organizes ideas and information with limited effectiveness 5 5.5 | Expresses and organizes ideas and information with some effectiveness 6 6.5 | Expresses and organizes ideas and information with considerable effectiveness 7 7.5 | Expresses and organizes ideas and information with a high degree of effectiveness8 9 10 |
| Communicates for different audiences and purposes | Communicates with no sense of audience and purpose0 1 2 | Communicates with a limited sense of audience and purpose 2.5 2.75 | Communicates with some sense of audience and purpose 3 3.25 | Communicates with a clear sense of audience and purpose 3.5 3.75 | Communicates with a strong sense of audience and purpose4 4.5 5 |

/15 KU /15 TI /10 C TOTAL: /40 MARKS

**Appendix A: Research Note-Taking Organizer**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Research Question 1:**What is the disease/abnormality and how does it affect cells, tissues, organs, and/or systems of the sick person or plant? | **Research Question 2:**What are the causes and symptoms of the disease/abnormality and how are they related to cells, tissues, organs, and/or systems? | **Research Question 3:**(own choice – write below)*Note: Make sure that the answer to the question has a connection to cells, tissues, organs and/or systems.* |
| Notes:(indicate your source by its number below) |  |  |  |
| Sources with documentation: | 1.2.3.  | 1.2.3. | 1.2.3. |

Research Question 3:

**Appendix B: Research Process Checklist**

**Communicating**

**□** Use scientific language

**□** Communicate clearly and logically

**□** Consider the purpose and audience

**Initiating and Planning**

**□** Formulate scientific questions to focus research

**□** Identify print, electronic and human sources relevant to research questions

**□** Select a note-taking strategy

**□** Locate relevant print, electronic and human sources through an initial search of available materials

**Performing and Recording**

**□** Select relevant information

**□** Organize relevant information

**□** Record relevant information using recommended formats

**□** Document the sources using an accepted form of documentation

**Analyzing and Interpreting**

**□** Analyze research sources for reliability and bias

**□** Draw conclusions based on research findings

**□** Process and synthesize the information

**Appendix C: Criteria for Evaluating Sources for Reliability and Bias**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Criteria** | **Source 1 Name:** | **Source 2 Name:** | **Source 3 Name:** | **Source 4 Name:** | **Source 5 Name:** | **Source 6 Name:** |
| S | How is the source sponsored? |  |  |  |  |  |  |
| O | Does it contain/indicate opinions and/or facts? |  |  |  |  |  |  |
| U | Is there an underlying bias? |  |  |  |  |  |  |
| R | How reputable is the source and/or organization? |  |  |  |  |  |  |
| C | How current is the source? |  |  |  |  |  |  |
| E | Is the author a known expert? |  |  |  |  |  |  |
| **Reliable and bias-free?** | **□ Yes** | **□ Yes** | **□ Yes** | **□ Yes** | **□ Yes** | **□ Yes** |