**Unit 4 - Activity 3 - Topics in Computer Science Worksheet**

Complete a PowerPoint presentation on each of the topics below. Submit file that has topics with headings, and formatted paragraphs below it. You should have 5 paragraph-equivalent amounts of text total.

**Collaborative Research**

Report on *any three* of the areas of collaborative research between computer science and other fields: CS with Biology, CS with Geology, CS with Health Informatics, CS with Sociology, CS with Art (excluding animation), or CS with Climatology

**Theoretical Computer Science**

Investigate and explain any thr*ee* of the following in theoretical computer science areas: Graph Theory, Logic, Computability Theory, Automata Theory, Image Processing, Natural Systems Simulations

-The entire presentation should be reworded into your own words

- You must use quotations if you are using more than 5 words from another source

- You must include the full source of any resources you used to find your information using the format at the bottom of this document

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| **PowerPoint Presentation Rubric** | | | | |
| **Categories** | **Level 1 (50 - 59%)** | **Level 2 (60 - 69%)** | **Level 3 (70 - 79%)** | **Level 4 (80 - 100%)** |
| **Knowledge/ Understanding** | - demonstrates a limited understanding of concepts, principles, and themes and story events of the study | - demonstrates some understanding of concepts, principles, and themes and story events of the study | - demonstrates considerable understanding of concepts, principles, and themes and story events of the study | - demonstrates thorough understanding of concepts, principles, and themes and story events of the study |
| **Thinking** | - demonstrated limited creative thinking skills when creating the PowerPoint Presentation | - demonstrated some creative thinking skills when creating the PowerPoint Presentation | - demonstrated considerable creative thinking skills when creating the PowerPoint Presentation | - demonstrated thorough creative thinking skills when creating the PowerPoint Presentation |
| **Communication** | organizes ideas and information with limited effectiveness | -organizes ideas and information with some effectiveness | -organizes ideas and information with considerable effectiveness | -organizes ideas and information with a high degree of effectiveness |
| **Application** | -uses the required language conventions with limited accuracy and effectiveness | -uses the required language conventions with some accuracy and effectiveness | -uses the required language conventions with considerable accuracy and effectiveness | -uses the required language conventions with a high degree of accuracy and effectiveness |

Note: