**ATTENTION STUDENT**: If you are found to have plagiarized any part of your PsychSim assignment, you will receive a 0 for the assignment and may be formally reported to KPU. If you wish to quote the source provided or any other webpage, you MUST cite the source using APA formatting. To avoid plagiarism, write all answers **in your own words**.

For more information on plagiarism and cheating, please visit <https://libguides.kpu.ca/academicintegrity/plagiarism> to study the videos and tutorials available.

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**Name this file using the following format:**

**LastnameFirstname\_Section\_AssignmentName**

For example: SmithJohn\_A54\_AuditorySystem

**PsychSim Online: Colourful World**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Student ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Course/Section: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Instructor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Trichromatic Theory**

Watch this video to answer the following questions:   
<https://www.youtube.com/watch?v=poL7nDmqjmk>

1. What color appears when you combine all wavelengths of light?
2. What colors do each of the 3 types of cones respond to the best?
   1. L cones:
   2. M cones:
   3. S cones:
3. Which color has the longest wavelength and which color has the shortest?
4. How are colors formed that do not have their own wavelength?

**Opponent Process Theory**  
Watch this video to answer the following questions:   
<https://www.youtube.com/watch?v=GiBKYNWllcs>

1. What color would an individual see after staring at red for a period of time?

1. Explain Chromatic Adaptation **in your own words**.

**Comparing the Theories**

1. **In your own words**, explain how the Opponent Process Theory and the Trichromatic Theory can be seen as complementary rather than opposing theories of colour perception.