

Hi there!

I'm glad you're using this resource. Continue to check our website (realsciencechallenge.com) to find more resources. And, sign up for our newsletter to receive updates on materials that will be available soon.

I spend countless hours writing, researching, editing and generating graphics/charts for each question. I want to continue creating useful content for you to use - however, I also want to ensure my work is fairly compensated.

Therefore, below are the terms and conditions for use of our materials.

What is allowed:

- photocopying our content for your students to use.
- posting a copy of our content (ie. questions, rubrics) on a password protected site for your students to access and/or complete.
- copying our questions into your tests or assignments. Please give credit in this case.

What is not allowed:

- Selling our content.
- Repackaging our content in your own materials and then selling it. NOTE: giving credit to us still does not make this okay.
- Distributing and/or posting our content online (for example, on social media or a blog).

Thank you for supporting us. And, we look forward to helping you with your teaching practice. Please feel free to reach out to us if you have any questions or suggestions.

Sincerely,

Kent
REAL Science Challenge Founder
Science Department Head (Burnaby South Secondary)

Task 1: Write an Argument

Sample Question

Write an argument that starts with the following prompt:

"<Your Researched Electromagnetic Radiation> is the most important form of electromagnetic radiation in today's society"

For example, if you researched x-rays, then your prompt would be...

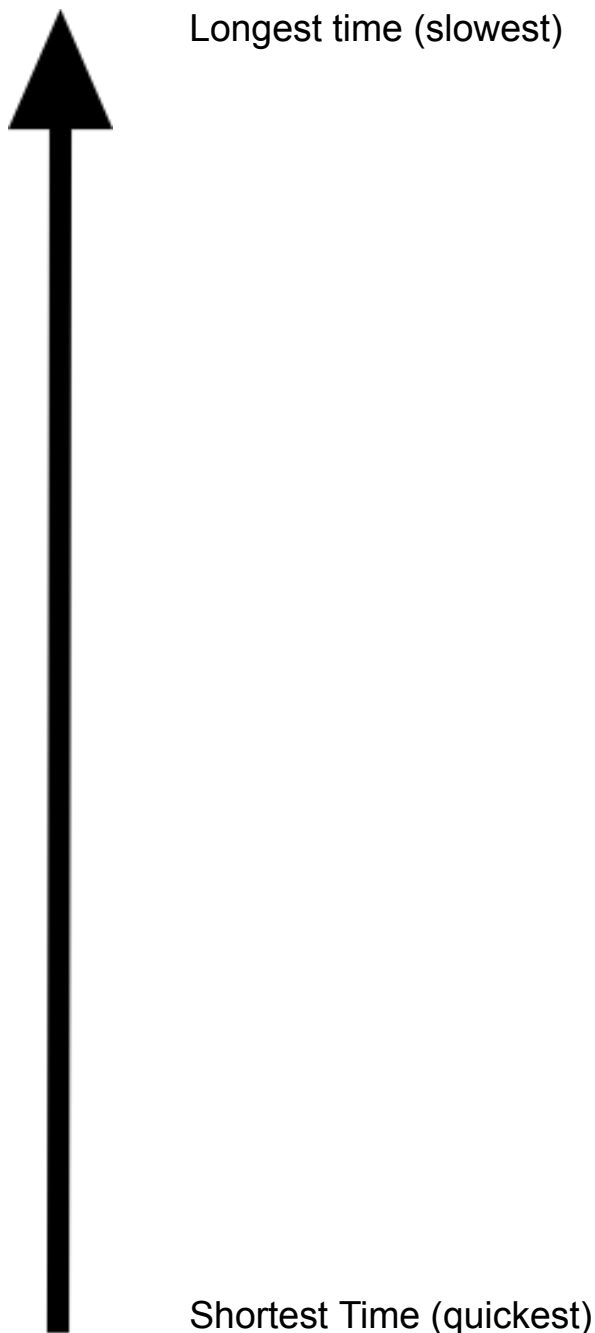
"X-rays are the most important form of electromagnetic radiation in today's society."

Use the CER (Claim, evidence, reasoning) format to structure your argument.

Task 2: Solve a Puzzle

Sample Question

Pretend a different laser was created using each form of EMR. For example, there's a laser made using radio waves, another made using infrared, another using visible light laser, etc. In an imaginary experiment, each laser was individually pointed at a beaker holding the same amount of water. The time it took for the laser to bring the water to a boil was recorded. On the chart below, rank the lasers from quickest boiling time to slowest. As part of your answer, explain your ranking.



Task 3: Evaluate the Source for Bias

Sample Question

Open up ChatGPT. Ask ChatGPT a question that requires an opinion. For example,

“Do you believe using UV radiation to irradiate foods is safe?”

“Do you believe radio waves from smartphones cause brain cancer?”

According to the website Historyskills.com, overly positive or negative bias in a source can be seen if...

- When describing people or events, the language is too positive and does not admit anything negative
- When describing people or events, the language is too negative and does not admit anything positive
- The source fails to mention very important information of which you are aware
- The source provides clearly incorrect information

Analyze ChatGPT’s response for bias. Explain whether it is overly positive, overly negative. If you cannot detect a bias, it is described as a “balanced” source. If ChatGPT is a balanced source, explain how you know.