

STEMPacts

STEM Challenge 2021

Challenge: Identify a scientific problem in your community or your household that needs solving! Come up with a solution to this problem and present your process using a flowchart or a mind map.

Your flowchart/mind map has to include the following:

1. Problem
 - a. Give a brief explanation of the problem you have identified and how it relates to STEM
2. Background
 - a. Give a brief summary of the background research you have conducted on this problem. This research needs to be conducted online, and you should refer to reliable sources.
3. Proposed solution
 - a. Develop a feasible solution to the problem you have identified with materials you can find in a typical school laboratory.
4. Testing the solution
 - a. Explain how you will test your proposed solution.
5. Results and Conclusion
 - a. Explain how you will analyze the possible results of your test, and how you will form a conclusion based on the results.

Possible topics:

1. Alternative Sources of Energy
2. Environment
3. Food, Health & Fitness
4. Security and safety
5. Robotics
6. Technology

Here are some free online tools you can use to create your flowchart or mind map:

- <https://www.mindmaps.app/>
- <https://app.diagrams.net/>
- <https://www.google.com/slides/about/>
- <https://docs.google.com/document/u/0/>
- Find any by searching on Google - “free online flowchart” or “free online mind map”
- Use our template!

Submit your flowchart/mind map by emailing it to stempacts@gmail.com with the subject – “STEM Challenge Submission”. We will announce the results in August.

Stand to win any of the following prizes:

1st place – valued at \$100
2nd place – valued at \$75
3rd place – valued at \$50
Honourable mention awards