Spark Your Potential

TEN TON ROBOTICS

1011X

Poster Design Challenge - High School

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Design process

We decided to list out the requirements to both the online challenge and general design norms.

Challenge Requirements

- Show the fun and possibilities involved in robotics education and competition.
- Hands-on, minds-on STEM learning and the feeling of creating something with technology.
- Opportunities to question, tinker, experiment, and play while building valuable skills like communication, collaboration, and time management.

Design Requirements

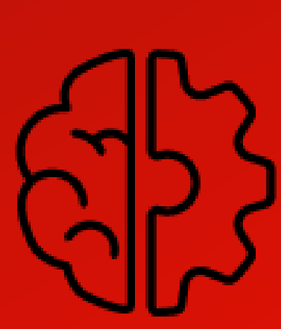
Focus on visuals
Short and focused titles
Information should start from the upper left and end in the lower right

- Point form
- Left align text
- 2-3 colours
- Gradient for background
- Include link to website and qr code
- Underline key words

Drafts:

Symbols to consider:

Finish flag: competition and play



Brain/Cogs: Critical and computational thinking

Lightbulb: Creativity and ideas

Colours

We started by researching about general poster design principles and tips, and compiled a list of the most important ones. One of these was to use a gradient as a background: this provides both simplicity and is eye-catching. You can see that the gradient of the background shifts towards the vex logo, directing your attention there. Aside from the background, we also found that a good poster uses 2-3 colours as to not confuse the reader. Our three colours were close to the red on the vex logos and the grey.

#f03024

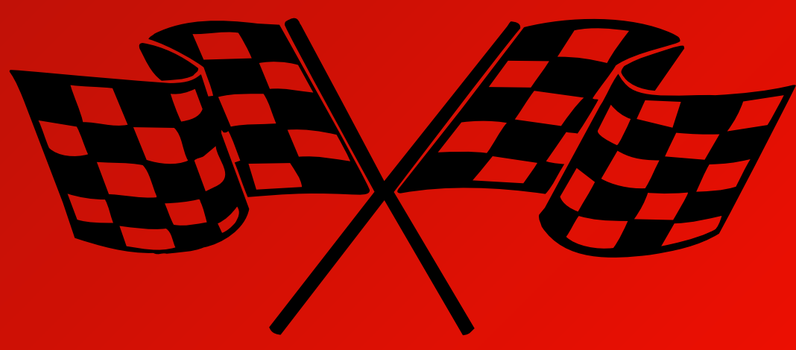
#A2A1A6

SPARK

To accurately depict the ideals and principles of the VEX foundation, we went on their website, and took the V5 educator course. We did this to understand VEX robotics from both the educator and student perspectives. We came upon an acronym called, “SPARK”. This acronym depicts the process of learning experiences and design processes. This was the perfect symbol of the learning that VEX robotics encourages, so we decided to incorporate the “SPARK” as a main component of our poster.

Conclusion

This poster is the epitome of everything VEX stands for: the design process, learning outcomes, and STEM values. We used the “SPARK” acronym, symbolism, and concise language to convey VEX, in a simple poster. We hope that this will encourage students our age to take an interest in robotics, and help us become a healthy thriving community!



Sources

Modified from MAKESIGNS Scientific Poster. (n.d.). https://urc.ucdavis.edu/sites/g/files/dgvnsk3561/files/inline-files/General%20Poster%20Design%20Principles%20-%20Handout.pdf%E2%80%8C