

BIKE TO THE FUTURE

TIME MACHINE SOLUTION OUTLINE

The following is the question for the Time Machine Solution and the tie breaker question. Teams have 2 minutes to present their answers to the judges. Teams can be creative in their ways to present the information through different types of media or presentation styles.

However please note to bring any equipment you may need for your presentation (laptop, speaker, etc.), there will not be any projection equipment provided.

» **QUESTION:** Your team has uncovered a time machine. When your team steps inside the time machine you notice that the flux capacitor is flashing, wires are sparking, and the clock is beeping. Suddenly the door slams shut, lightning strikes, and you are launched into the future.

The year is 2050. As you walk outside, you notice that you are still in Santa Clara County but there are tons of electric bikes being used by the whole community! Your team has set out to find out why. After talking to many community members researching and gathering all of the information, luckily, the time machine was able to return your team back to 2019 just in time for Bike to the Future!

What were the different technologies, programs, policies, or other changes that occurred between now and 2050 that led to such an increased uptake in electric bikes within the community?

» **TIE-BREAKER QUESTION:** What are the top three ways that Silicon Valley Clean Energy (SVCE) can help increase use of electric transportation within Santa Clara County?

The tie breaker question will only be used in the case that there is an overall tie within the entire Bike to the Future competition. The tie breaker question is structured to be a 2 minute spoken presentation outlining the three different ideas. Teams can use a notecard or paper to aid the presenter however no other media may be used to present the information to the judges. The tie-breaker question will also be scored by the same rubric.

POSTER PRESENTATION OUTLINE

The following guidelines outline what to include on the Bike to the Future Poster Presentation portion of competition. Make sure your team has addressed all sections of the poster.

Poster Outline:

TITLE: The title of the poster can be creative! Also make sure to include your team name, participant names, and school (or schools) names on the poster.

INTRODUCTION: The introduction sets up and provides background information for the rest of the poster. In this section teams can address why they were interested in participating in Bike to the Future, what is an electric bike, and why electric bikes and electric transportation are important. Also, feel free to add any information that you would like to include to help introduce your team, poster, bike, or ideas.

METHODS AND MATERIALS: The methods and materials portion of the poster describes what it took to build your electric bike. In this section, outline the materials used for your bike, the process it was to build the bike, and any challenges you faced when building the bike. Feel free to use bulleted lists, flowcharts, photos, drawings, or anything else that helps portray this information.

RESULTS: In the results section describe the finished version of your team's e-bike. Make sure to include the amount spent for the e-bike, the configuration of your battery, the completed specs of your e-bike, and any other information that shows the final results of the process and materials in building your team's e-bike.

CONCLUSION: The conclusion is the space to reflect on the process of participating in Bike to the Future and building an electric bike. This is where your team can describe what you have learned and gained from the competition. Also, in this space teams can address how they plan on using their e-bike after the competition for fun and to reduce emissions.



The size limit for the poster is 24 x 36 inches and please make sure to bring the physical poster (not digital.) Please use the stipend to cover all costs of the poster including materials and printing needs.