

## **Example Application**

Below is a guide to explain how to fill out the Samsung Solve for Tomorrow application. Included is an example from a past winning project idea. Your answers do not need to be as in depth as these, this is just to serve as an example. Focus on answering the question to the best of your ability and look at the guidance provided under each question.

Any persisting questions, please email [solvefortomorrow@sea.samsung.com](mailto:solvefortomorrow@sea.samsung.com)

### **Describe the challenge or issue you and your students are planning to tackle. (1,000 characters max)**

Guidance: This is where you create a clear and strong problem statement to grab the judge's attention. What is the problem you and your students are trying to solve? Feel free to use (accurate) statistics.

Ex: The National Weather Service estimates that in an average 3-year period, five hurricanes will strike the United States coastline, killing up to 100 people and costing billions of dollars in damages. Our city was recently hit with a hurricane, disrupting our potable water supply for days, while standing water throughout the city caused an infestation of mosquitoes. According to the CDC, mosquitoes are the most dangerous animal in the entire world, because of the types of disease they often transmit. Our students are developing a solution to rid our community of the mosquito infestation, in order to prevent disease outbreaks. Their solution will use recyclable materials to use the standing water to attract and trap the mosquitoes.

### **How will STEM be applied to address this challenge or issue? (1,000 characters max)**

Guidance: We understand you will likely not have a full solution right now or that your students may come up with a new solution later. We are looking for your overall project vision at this point. What is your proposed solution for the problem stated above and how does it involve STEM?

Ex: Our students are working on a prototype that collects rainwater in a container made of recyclable materials, in order to trap mosquitoes using their natural attraction to water along with other natural attractants that we can utilize. Once the mosquitoes are trapped, they will not be able to reproduce and they will die in the trap, preventing them from being a nuisance or spreading disease within the community. We will use physics principles, design methods, and environmental studies to come up with the best solution. We will also use math to calculate the budget of our design, and its rate of success.

### **How does working on this project prepare your students for their future of work? (1,000 characters max)**

Guidance: What skills are students gaining while working on the project that they will be able to apply outside the classroom now, and in the future? We are hoping to understand what type of "beyond the book" experience students get as a result of participating in the project.

Ex: Working on the mosquito trap solution will prepare students for their future of work in many ways. Practically speaking, they will be honing their skills in product design, data analytics, and statistics related to disease transmission. They are also developing skills in teamwork and project management, which will be applicable to any industry they enter. Finally, students are learning to collaborate in a group and work together to achieve a common goal.