

FIRST LEGO® League Project



NOTE: In order to be eligible for project awards at qualifying and championship tournaments, you must explain in your presentation how you completed all THREE parts of the project (**identify** a problem, **create** a solution, and **share**). Consult the Project Rubric in the FLL Coach's Handbook for more information. The total length of your project presentation should be no more than five minutes, including any setup time.

Project Introduction

Weather is the condition of the atmosphere measured in short lengths of time (hours and days). Climate, however, is the average weather over decades and centuries in a specific location. We can look out our window and see how weather changes every day, but we need data that has been tracked over hundreds of years to understand how the climate may be changing.

Climate tracking is important to communities around the world because the information is used to plan, predict, and make decisions on activities like planting crops or hunting and fishing. People also use data to anticipate the impacts of climate on the economy, food and water availability, tourism, disease control, and many environmental issues.

Why is climate important to us? By gaining a greater understanding of the Earth's complex climate systems, we will be able to work together now and in the future to develop the innovative solutions that will benefit us all and continue to improve the world in which we live.

Can FLL teams make the necessary Climate Connections?

The Project

- 1.) **Research** how climate affects your own community. **Identify** a climate problem in your area, analyze climate data about the problem, and discover what your community is doing about it. **Find** another community somewhere in the world with the same issue and identify any solutions they are working on.

Discuss the various ways climate impacts your community and your lives. Look at climate data available for your area as it relates to your climate problem. Consider talking with experts who work with or in climate everyday, like climatologists, farmers, foresters, and community leaders. Then find another community in a different geographical area that is experiencing a similar problem. *Consult the FLL Topic Guide for additional project resources.*

- 2.) **Create** an innovative solution based on the information you gathered that could be used on a local or even global level to solve this climate problem or improve on an existing solution.

Consider all the potential solutions to your climate problem and how great an impact you can have. Talk with experts to see what solutions are already being developed or used. Build your climate connections by creating an innovative solution to your chosen climate problem that could be applied in both communities and could be adopted by even more communities who face a similar issue.

- 3.) **Share** your research and solution.

Once you have researched and developed your solution, get out there and share it! Take what you've learned to build awareness of the problem and promote your solution. Show your research and solution and use this project to see just how great an impact you can have on your community and your world!