

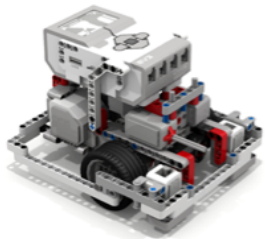
Uses & Limitations of the Internet

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Not the Droids You Are Looking For
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"The Internet can be a very useful tool for FIRST LEGO League teams, but use it with caution and teach your team the difference between inspiration and outright copying."



In this article, I tackle the Internet and the role it can play for a FIRST LEGO League team: the good, the bad and even the ugly. Opinions will vary greatly on this topic. My opinions are based on 6 years coaching, judging at both regional and international events, and my philosophy on how to get the most out of the FLL for our children.,

Research Project: The Internet can be a great tool for an FLL team for the research project. It is the first place the kids go to look up data for their research project and sometimes even pick a topic. It is a great way to see if your innovative solution exists already! Students can design and distribute surveys and send emails using the Internet. The students may use the Internet to find people or places to contact for their project. There are journal articles, documentaries, and more on the Internet. Help the students understand that although all of these might be "on the Internet", they are actually different types of sources.

But don't let websites be the only source of information for your team's research project. Encourage them to use it as a starting point and then move beyond.

Unfortunately, not all sources on the Internet are equal. When students present their findings to each other, ask where they got the information from. A personal blog site is not as good a source as an industry website or a National Geographic video. Such discussions early in the season will help the team get better results with their research project.

Learning to cite resources and identify trustworthy resources is a valuable skill.

Robot Game: The Internet can also be a great resource for the robot game, but coaches need to be careful about how Internet resources are used and to make sure that students explore their own creativity first.

An important part of FLL is learning how to come up with your own strategy, design and style. For example, watching YouTube videos of other people's current robots and seeing the "Internet solution" early in a season can limit their creativity. This does not mean that such videos cannot be valuable in learning and to get inspired. *However, we greatly caution teams from directly copying others' robot, attachment design, and strategy. Copying another team is not the same as being inspired by the team. Copying robs the students on the team from thinking creatively and solving problems themselves which is the core of FLL.*

I recommend that teams only watch these videos **after** their season is done to get inspired for the next. Students could then compare the techniques/strategies used by these teams with their own approach to identify general strategies that work well (e.g. aligning on walls), areas that they can try to improve, and areas where they did a good job. As a coach, you might pick 5 robot game videos (of teams at different levels) for your team to analyze.

Overall, I recommend that you identify sites that you feel comfortable pointing your team to. For example, some sites such as ev3lessons.com are designed to explicitly avoid giving specific solutions to any FLL mission. Some sites, even ones such as the official FLL forum, have detailed discussions regarding strategies for the current season's missions that you may want your students to avoid.