





# Links to Constructopedia Designs for FLL

*Updated: July 5, 2010*

The Constructopedia that comes with the LEGO Mindstorms kit serves as a starting place to build your first robot. The links in this document are intended to give kids an easy way to build different robots and study their behavior before they settle in on a design of their own for the FLL season. This list is by no means intended to be exhaustive or do a complete coverage of the many styles of robots, but rather a simple jumping-off point for teams looking for assistance in taking the next step.

<a href="http://legoengineering.com/library/cat_view/30-building-instructions/38-nxt-based-creations.html">http://legoengineering.com/library/cat_view/30-building-instructions/38-nxt-based-creations.html</a>	
	Click on the link “Constructopedia 2.1   Full Car Model”. This is a simple robot that can be built with very few parts. The design provides for light and touch sensor attachments as well. One interesting experiment would be to modify the robot so the sensors mount on the other end making the large wheels be the front of the robot. This design is from Tufts University.
<a href="http://legoengineering.com/library/cat_view/30-building-instructions/38-nxt-based-creations.html">http://legoengineering.com/library/cat_view/30-building-instructions/38-nxt-based-creations.html</a>	
	Select the link “NXT Constructopedia – Beta 2.1”. This NXT Constructopedia contains a set of building hints for working with the NXT. Several ways of connecting motors to the NXT are illustrated that are intended as inspiration for building your own creations.
<a href="http://www.nxtprograms.com/MTV/index.html">http://www.nxtprograms.com/MTV/index.html</a>	
	Modular Test Vehicle (MTV). This design can be built in 5 separate chucks and then combined to form a robot. It is a good exercise in modular design. It uses a lot of parts to accomplish this task, but many experiments can be easily carried out on the result.
<a href="http://www.nxtprograms.com/index.html">http://www.nxtprograms.com/index.html</a>	
	This link contains a long list of robot projects. Click on the link “Free Project Instructions” that corresponds to the type of NXT kit that you have. Many on the list are simple robots that can be easily built. There are many other fun projects to build as well.