

LIU K'Nex STEM Design Challenge 3-Day Camp at Gettysburg Area Middle School

Students choose a theme to focus on for the 3-Day camp. Certified teachers with up-to-date clearances facilitate small groups of students working through a multitude of challenges within a particular theme.

Cost: \$150

Camp Dates: July 16-18, 2018

Time: 9:00 AM - 3:00 PM

Ages: 10-14 as of the 1st day of camp

Bring a packed lunch, drink and snack

Online Registration: <http://goo.gl/forms/hs03P5sBQJ>

Online Payment: "submit payment to"
designchallenge@iu12.org



Choices for the LIU STEM Design Challenge Camp

Product Innovation Challenge: Teams are challenged to develop a new product for the home. This product can be anything that you can use in your home and it must be environmentally friendly. This product could be (but not limited to) a new way to power your home, a new type of appliance, or a new gadget for home entertainment and makes the world healthier, cleaner and safer. As an added bonus teams can design the home with multiple innovative products.

Research Outpost K'Nex Challenge: Teams will design and build a research outpost that includes a rocket to transport researchers and a way to generate energy to support the work site and living quarters as well as a rover to travel at least 4 feet across the research area. As an added challenge, design and construct a robot that performs a task that makes the world healthier, cleaner, or safer. Incorporate the robot into the design of the rover.

Amusement Park K'Nex Challenge: Teams will design and build an amusement park that includes rides, symbolic landmarks, a bridge, and a tower with a revolving restaurant. The design of the park should have a consistent theme carried throughout the design, rides and structures. As an added challenge, the team will be add features to the park that make the world healthier, cleaner, or safer.

Mini-Golf Course K'Nex Challenge: As a team, design & construct an 18-hole mini golf course around a selected theme. In the design, include a bridge that spans twelve inches and incorporates a motor. As an added challenge, program Sphero to successfully navigate the golf course.

Battlebots Challenge: Teams will build and drive LEGO remote control robots and learn about power transmission with combinations of motors, gears and wheels. Teams will design, build, field test, and enter competitions with their bot.



LIU K'Nex STEM Design Challenge 3-Day Camp

Option 1 - ONLINE REGISTRATION <http://goo.gl/forms/hs03P5sBQJ>

& Online Payment via PayPal at designchallenge@iu12.org

Option 2 - PAPER REGISTRATION

Camp Location: _____

Camp Time: 9 AM - 3 PM Ages 10 – 14

Student Name _____ **Student Age** ____ / _____

Birthdate

Address _____

Street

City

State

Zip

Phone _____ **Email** _____

Please indicate (ONE) STEM Design Challenge your child would like to participate in for the week.

Return completed registration form with \$150.00 payment, per student to:

LIU #12

**Attn: Kelly Lovell
65 Billerbeck Street, PO Box 70
New Oxford, PA 17350**

Questions?

Phone/

717.624.6447

Fax/

717.624.6589

Email/

krlovell@iu12.org



Registration Guidelines

- > **Registrations will be accepted up to 2 weeks before camp begins**
- > Registrations will be processed in the order received
- > A registration is complete **when the registration form and payment-in-full are received**
- > **Payment may be made via Pay Pal, check, or money order**
- > Registration forms may be returned via on-line form or U.S. mail
- > Participation will be confirmed through e-mail or U.S. mail. E-mail, if available, will be the primary method of communication
- > Following confirmation, **medical forms must be completed and returned**

Refunds will be granted in the following increment

A full refund will be granted until May 31, 2018