

2021 EICK School Age Summer Camp

June 1 – August 13, 2020; Hours: 8 a.m. – 4 p.m.

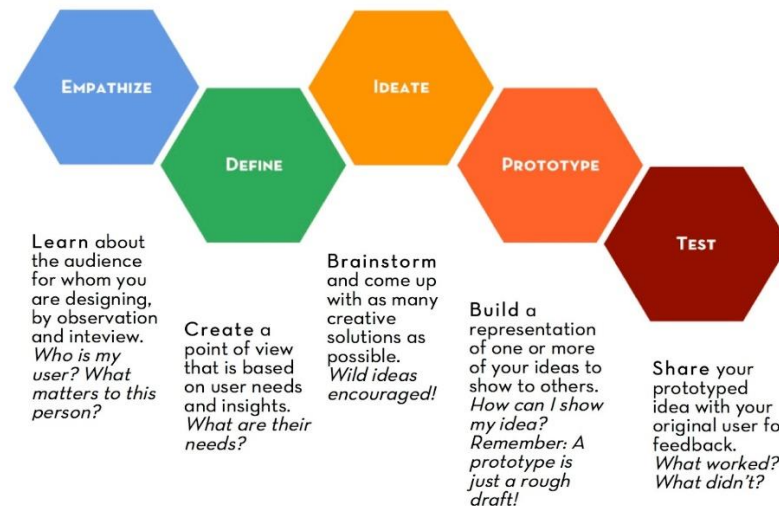
Spaces Limited – 30 Spots (3 groups - 10 per group); \$100 One Time Supply Fee; \$225 per Week

Registration: www.eickacademy.com; 1-513-402-7318; Call for multiple camper rates.

**Campers may attend before and/or after care 6-8 a.m. / 4-6:00 p.m. if needed -no additional charge.

Intro to the Design Thinking: Campers will learn how to apply design thinking process to all types of design and problem solving. Campers will learn to understand that you can learn from failure, from refining ideas or by combining ideas of a team to solve global issues.

We are all DESIGNERS!



MIT – Massachusetts Institute of Technology

1. **Green and Sustainable Construction:** Campers will explore population growth and tiny house building with alternative sustainable products. Campers will design and build a tiny house model using alternative products.
2. **Clean and Renewable Energy and Circuits:** Campers will explore clean energy and how energy is converted to electricity by virtually visiting solar, wind and other energy farms. They will design and build a renewable energy field by building wind turbines. They will build a circuit that does not fail when one part of the circuit is damaged and learn how it can be useful in a wind farm.
3. **Living in Harmony with Wildlife:** Campers will explore problems of human encroachment on wildlife habitats and design and build solutions for humans and wildlife living in harmony.
4. **Food Shortages - Alternative Farming:** Campers will explore the effects of land degradation on farming. They will design and build soil free methods of farming for crop expansion.
5. **Systems and Networks:** Students will learn about how computers are networked, and problems encountered with setting up systems. They will set up their own mini network.
6. **Prosthetics, Robotics and Overcoming Disabilities:** Campers will explore how robotics is helping to overcome disabilities or to expand human abilities. Campers will design and create a prosthetic that will overcome a disability or expand a capability.
7. **Biomimicry and Nature Inspired Design:** Campers will explore how engineers and scientists use nature inspired design to mimic solutions to global problems. Students will design and build a nature inspired design to a problem.