

Cadette–Ambassador Journey Guide

Engineering

Think Like an Engineer

1. The Purpose of Think Like an Engineer

i Learn to be an engineer of your own future through *Think Like an Engineer*. By exploring the world of engineering, you will learn about its many types, how it effects your daily life, and you will then be challenged to discover creative solutions to real-world problems.

2. Take Action Project

i To complete *Think Like an Engineer*, finish the Journey using Volunteer Tool-Kit (VTK), and earn the Think Like an Engineer and Take Action awards.

NOTE—What separates a community service project from a take action project? Here is a break down. Instead of just identifying a problem and fundraising or collecting for it, take a deep look into the root of the issue. Connect in with the community and ask questions. What did you see? Why are things the way they are? What do you want to change? Work with friends or by yourself to help make the world a better place.

Let's take action.

Examples:

- Design and create a prosthetic arm.
- Layout the instructions for an eco-friendly commuter system.
- Build your own mini wind turbine.

3. Think Like an Engineer and Take Action Awards

i Throughout the Journey you will earn the Think Like an Engineer and Take Action awards.

- **Think Like an Engineer:** Learn about engineering and think and about how it helps the world around you.
- **Take Action:** earned by engineering a solution to a real-world problem!

4. Field Trip Ideas

i Exploring different types of engineering through field trips can be a fun way to get inspired for your take action project.

Examples:

- Explore different ways to travel up. Take an elevator, escalator and the stairs.
- Take a trip to a power plant.
- Go to a bike shop. Check out how bikes are different. Then take a bike ride with friends.

5. Think Like an Engineer Ending

i Once you have completed the Journey, along with the Think Like an Engineer, and Take Action awards you have finished *Think Like an Engineer*. Congratulations! Hopefully you have gained the skills to not only pursue STEM related activities, but the passion to do so.