Creativity is the secret sauce to science, technology, engineering and math (STEM).

What does Alberta’s Lillie After-School STEM Academy Look Like?
STEM After-School Academy

Aviation Science
- Provide hands-on learning
- Laptop Flight Simulator
- Aviation Programming / Field Trips

Agricultural Science
- Biochemistry
- Principles of food processing
- Designing landscape plans

Robotic Sciences
- Combine active-learning with robotics in the classroom to deliver an interactive, immersive learning experience.
What this would look like for the students:

- The sole mission is to introduce and inspire students to the world of aviation.
- STEM Academy participants explore aviation through technical and learning classrooms as well as hands-on experiences from knowledgeable instructors and mentors.
- Middle- and high school-aged students will attend a weeklong overnight summer camp designed to introduce young people to the aviation world.
- Establish relationships with post-secondary institutions that will allow students to continue their aviation path.
Agricultural Sciences

What this would look like for the students:

- Students will learn to analyze the biological, chemical and physical properties of soils,
- They’ll apply this knowledge to issues such as increasing crop production, protecting human health, and ensuring environmental sustainability.
- Help bring an end to childhood obesity
- Establish relationships with post-secondary institutions that will allow students to continue their agricultural path.
What this would look like for the students:

- Students will learn theories that include the use of electricity in providing power to the robot.
- Students will also understand the concepts of tension and force when they choose the materials used in the robot.
- Simple and complex math concepts are also demonstrated while they assemble the robot.
- Establish relationships with post-secondary institutions that will allow students to continue their Robotics path.
Partnerships

- Local Schools
- City Officials
- State Funding
- Federal Funding
- Microsoft
- Dell
- Apple
- Tesla
- Rebuild Distressed Communities Program
Next Steps

- Secure Property
- Fundraise
- Submit Grants
Alberta’s Lillie Greatest Asset
“Everything is possible, even the impossible.”

- MARY POPPINS
Special Thanks To You Mayor Jones!