



STEM field trip for girls



Moreland University Leadership
project by Kamila B.



As a girl scouts leader every other week I'm organizing various activities for girls of age 6-8 years old. The goal of activities is to develop in girls various skills such as creativity, collaboration, critical thinking, problem solving and so on.

Project background

Recently I was appointed as a STEM master of Girl Scouts Overseas in Beijing; and I came up with an idea to have a STEM field trip with girls of ages 7-17. We have girl scouts in the school where I have my clinical practice. My plan is to involve several teachers, girls and their parents to visit Airbus engineering center together. There we can have several STEM related stations. I will request the company employees to prepare a presentation and a tour for girls. This will fulfill girls' STEM badge requirements.

Why only girls? Girls are generally underrepresented in technology and engineering fields. With such a project, I would like to involve and inspire more girls to choose careers in STEM.

Project purpose

1. Involve the school staff, USA Girl Scouts overseas organization and parents, as well as Airbus company employees.
2. Introduce girls to STEM, i.e. aviation; inspire them with success stories of women in aviation.
3. Prepare activities, tour and presentation that would inspire girls to pursue careers in STEM.
4. Long-term purpose: continue visiting Fortune 100 companies, involve girls and wider community.

Project objective

Girls will

1. Learn about the achievements in STEM and get inspired by success stories of women in aviation
2. Develop collaborative skills through activities.
3. Explore history and opportunities of Girl Scouts and Airbus.

Volunteers (teachers and parents), GS leaders, and I will

1. Develop leadership and management skills
2. Provide safe activities and ensure safety and well-being of all participants

Project impact

1. School community will be aware of myriad opportunities around STEM
2. School community collaborates with GS and other companies (in our case - Airbus)
3. Long-term purpose: look for opportunities to connect students to other companies (for training, skills and career development and other purposes)
4. This project is aligned closely with the school's **motto**: "Together is better" because gathering, participating, and succeeding in this activity requires the sense of "togetherness". The school's **mission** is "developing learners into passionate leaders".

Project description

Background of Girl Scouts organization:

<https://www.girlscouts.org/en/discover/about-us/what-girl-scouts-do/leadership-experience.html>

Project description

OUR HISTORY OVERVIEW



From 18 girls in Savannah to a global movement to make a difference.

Juliette Gordon Low—also known widely by her nickname, “Daisy”—started Girl Scouts in 1912 in her hometown of Savannah, Georgia.

The first troop was made up of 18 girls who all shared a sense of curiosity and a belief that they could do anything



Project description

OUR HISTORY OVERVIEW

1910s



1920s



1930s



1940s



1950s

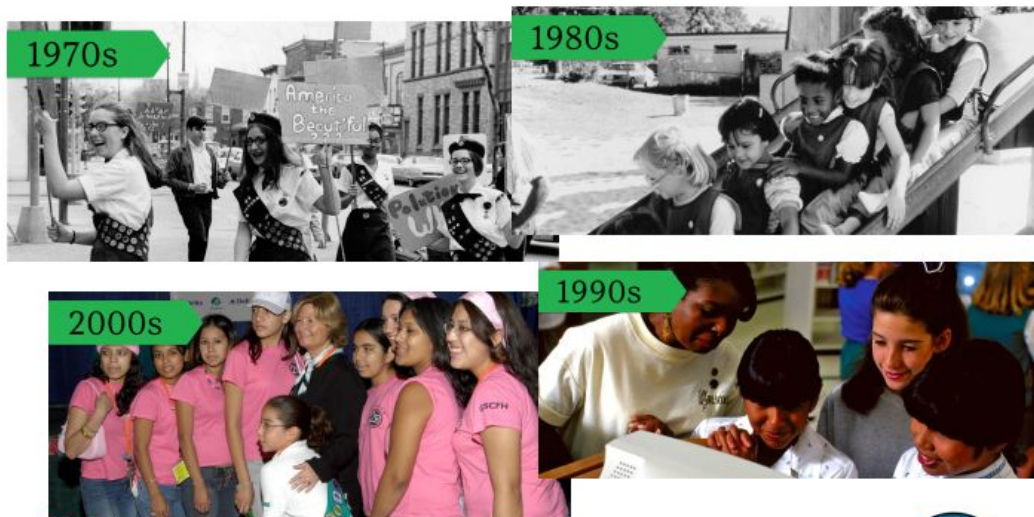


1960s



Project description

OUR HISTORY OVERVIEW



And our story continues....



Project description

TODAY: We are the Faces of Girl Scouts and...



Project implementation plan and timeline

1. Reach out to Airbus marketing team
2. Announce about the opportunity at the school (school newsletter, collaboration meeting)
3. Create several wechat groups and the project poster to spread
4. Plan activities and assign volunteers to each station
5. Order STEM badges and other required for the activities material
6. Create a video and slides

Day of the event

- 10:15 – Event Kick off/Opening Ceremony – Welcome speech with the core team;
GS law & promise Kamila to introduce the stem program – fun pics and facts about airbus & women in aviation; Transition to the next chapter:
- 10:25 – Meet Airbus Engineers – girls who design and work in the industry – different roles
– life stories to inspire – video provide by Airbus
- 10:50 – Kamila to show a fun video: sustainability & women in aviation
- 10:53 – Scouts Snacks & water break
- 11:05 – Simulation Warehouse visit begins & Activity Stations – assist by Troop Leaders
 - 1: Balloon popping STEM questions challenge. To do: questions and tasks for all levels
 - 2. Paint & decoration wooden airplanes.
 - 3: Challenge your equilibrium and construction skills (raw spaghetti and marshmallow highest tower challenge)
 - 4: A. Identify parts of airplane (mix and match terms with images)
B. Create your own airplane design – color wooden airplanes; create paper airplanes
- 12:15 - Closing Ceremony, clean up – badge time!
- 12:30 – Ciao to the fabulous Airbus building – departure!

Tools for measuring success

1. Participation and immediate feedback from participants
2. End of project survey