

FYE: Chemistry and Physics

Women in STEM

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Key Topics Covered in This Presentation

**Fun Facts on STEM
women**

**Increasing the
Number of Women
in STEM fields**

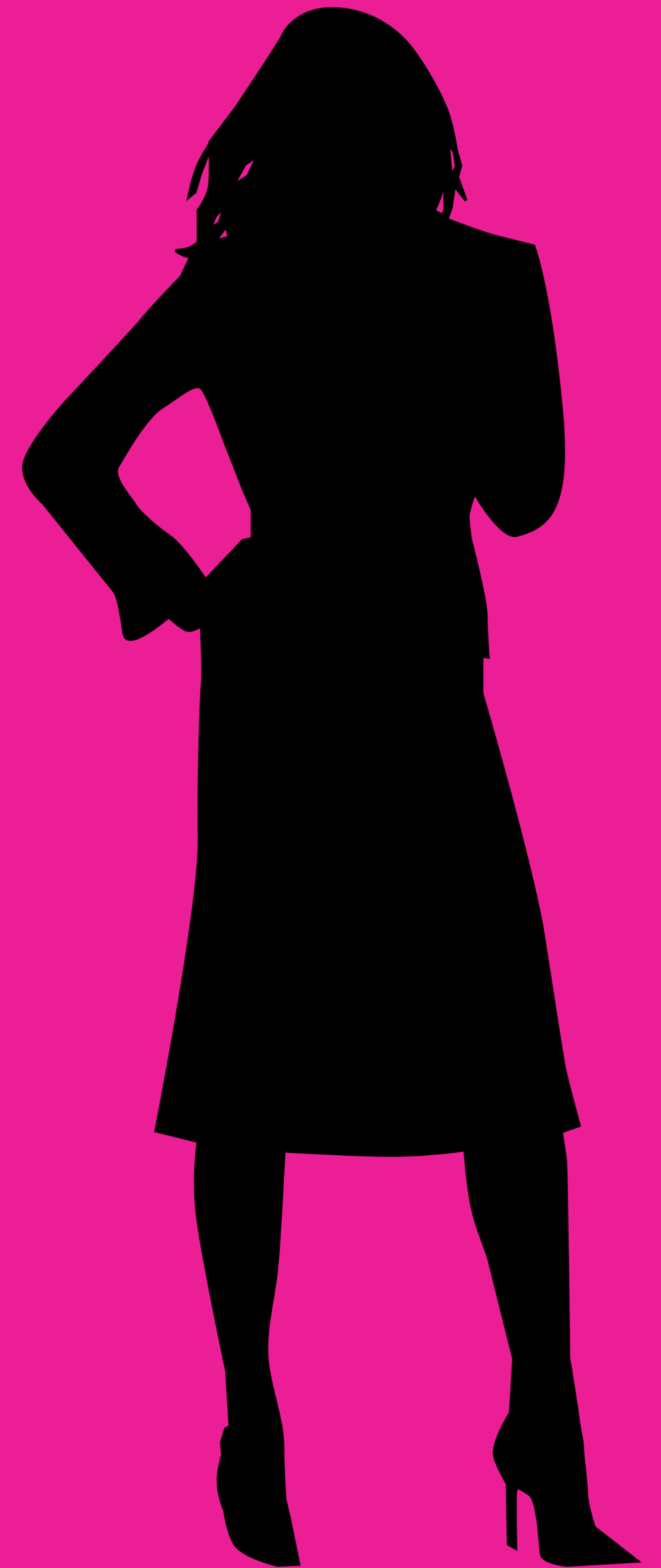
**Historical Women
in STEM**

**Barriers For
Women**

**Battles Women in
the Field face**

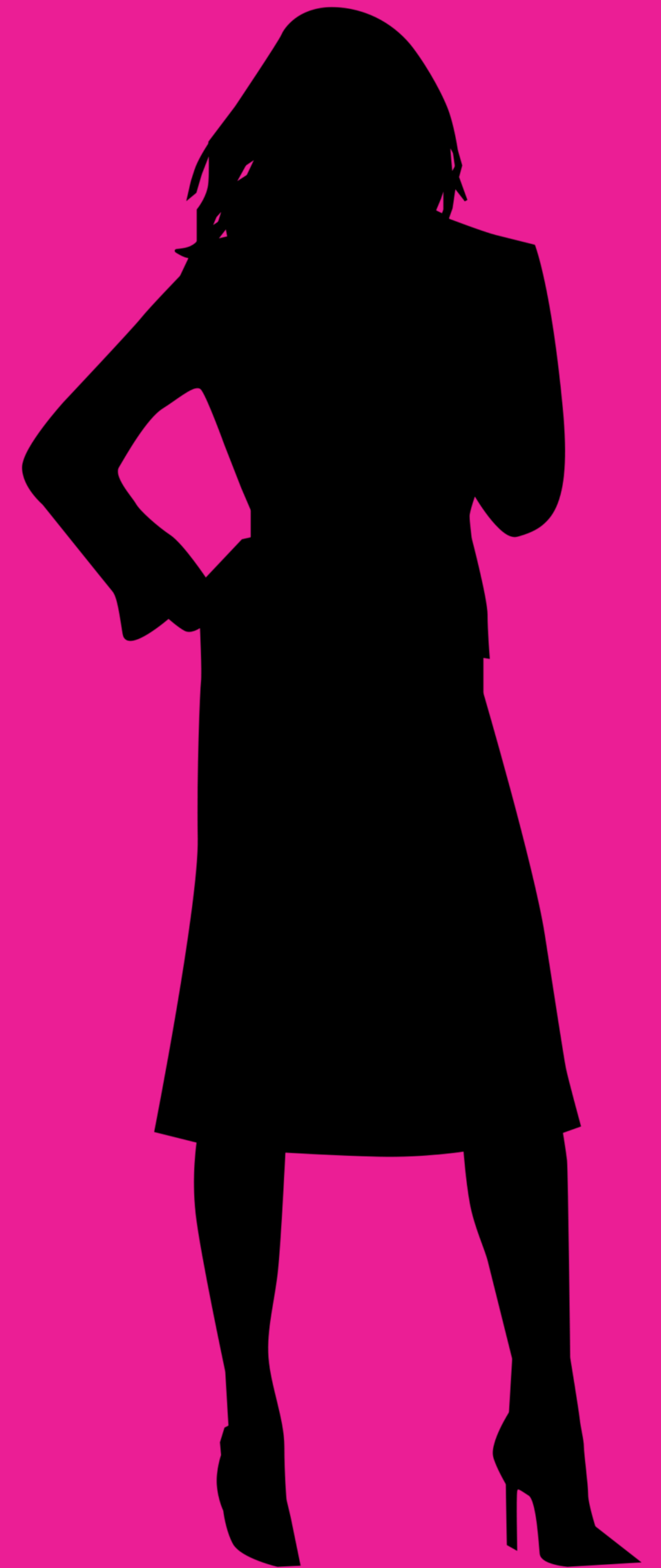
Some Fun Facts on Women in STEM fields

- Women make up 29% of the STEM workforce
- Computer Science and Engineering has the most gender imbalance (19% female in both areas)



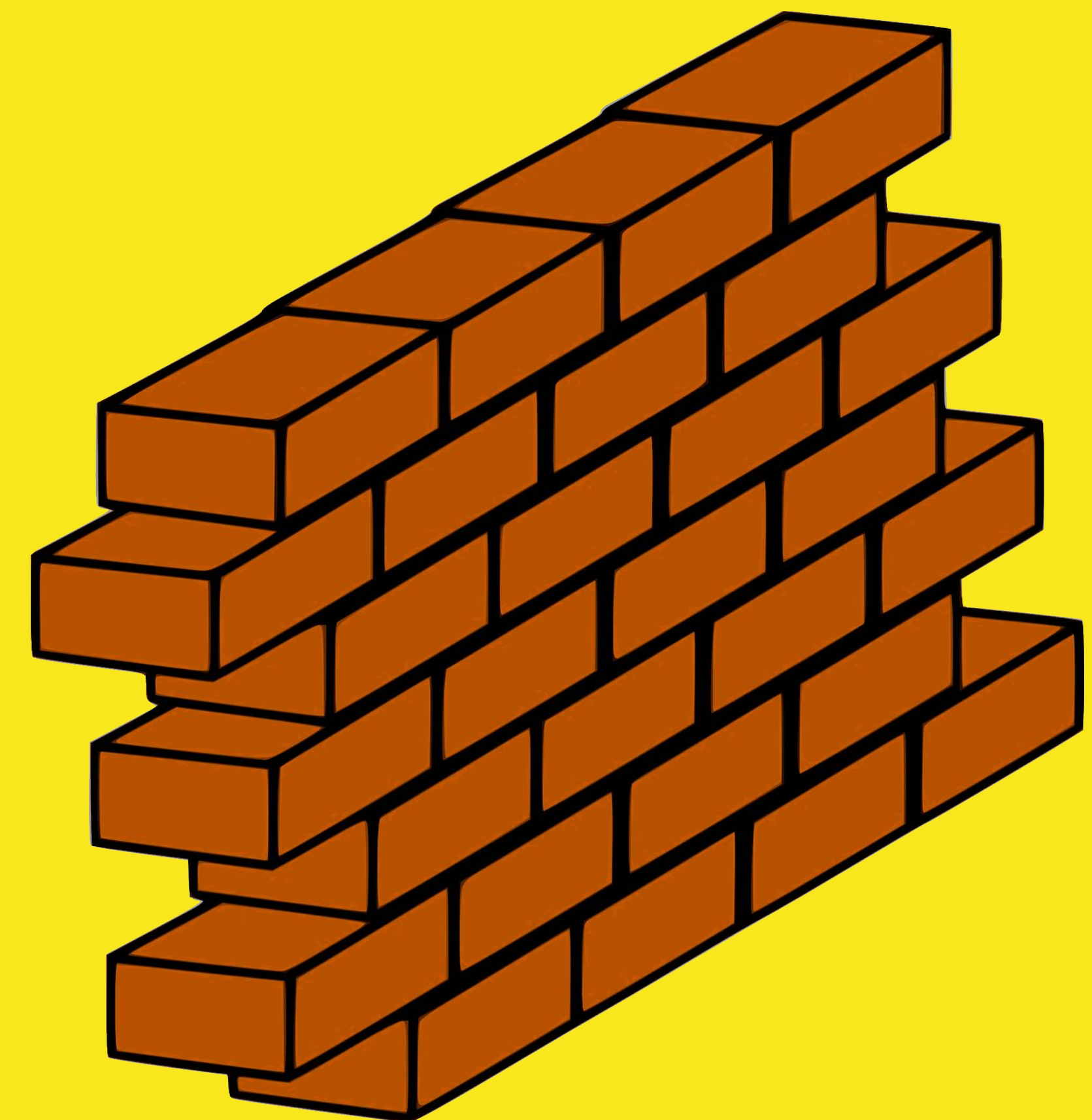
Some Fun Facts on Women in STEM fields

- Only about 12.2% of women are board members in the information technology industry
 - Female Chemists earn 30% less than male Chemists



Barriers for Women in STEM

- Lack of mentorship within desired field
- Wage gaps and difference in treatment on the job
- Young girls are typically not encouraged to pursue STEM while growing up while young boys are (Gender Stereotypes)



Prejudices against women in stem

- Women can't compare to men in math courses
- **Women aren't generally smart enough to keep up with STEM education**
- **Women already established in stem may give new stem women a hard time because it's what they went through**
- Women have to project a different personality sometimes to be acknowledged because science and math fields are seen as masculine
- Women in stem are seen as different and almost alienated by some women outside of stem
- **We can't have children and excel in Stem at the same time**
- **Women are somewhat inferior to men so it makes being in a high leadership role harder** / people under women want to listen to the male counterparts

How to Get More Women in STEM

- **Universities can attract more female science and engineering faculty if they improve departmental culture to promote the integration of female faculty**
- Prove a broader overview of the field in introductory courses
- Start young -give presentations to middle school aged students
- Give young girls good mentors
- **Promise better job opportunities for women after college**
- **Provide more representation of successful women in STEM**

Historical Women in STEM



Marie M. Daly



The first African-American woman to earn a Ph.D in chemistry

Historical Women in STEM



Marie Curie



The first woman to receive a Nobel Prize in 2 separate scientific fields (Chemistry and Physics)

**Where'd we get our
info?**

**Glad you asked! See
link below!**

<https://www.aauw.org/resources/research/the-stem-gap/>