Are females as competitive as males in STEM?

**However ...**
- Males take up 76% of all STEM jobs with an average salary 14% higher than females (Beede et al., 2011).
- In HKDSE, boys choose STEM-related subjects four times as often as girls in school (TWF, 2017).

**Actually ...**
- Based on a meta-analysis of 100 studies on 3,175,188 participants, females perform slightly better than males in computation (Beede et al., 2011).
- If told “there are gender differences in STEM-capability”, females perform significantly worse than males in a test, in which a control group shows no difference (Sampar et al., 1999).

Female students dislike current STEM subjects because they only contain uncreative dry concepts & mechanical exercises (TWF, 2015).

Through primary socialization, children conform to their gender roles, including all the stereotypes (Reinking & Martin, 2018).

If only few girls choose STEM subjects, they lack recognition and peer support (TWF, 2017).

**Why?**
- **Curriculum Design**
- **Social Stereotypes**
- **Peer Influence**

**Effective engagement** of female students with the help of curriculum design & learning community.

**Lack ridding students of existing stereotypes.**
Empowering girls is more than simply getting them familiar with the current already-biased industry.

**Limited effort of changing social stereotypes and the STEM industry itself.**

**Evaluation**
1. **Curriculum Design**
2. **Peer Influence**
3. **Social Stereotypes**

**References**