A. Briefly describe overall research program at your laboratory.
In my lab we study toxic effects of various herbal products used for medicinal purposes. We employ mammalian tissue culture techniques to test toxic properties of these compounds.

Briefly describe specific project(s) for your teacher
In recent years, herbal medication has gained popularity in the area of cancer research, specifically in tumor treatment and prevention. Various researchers reported that the components of these herbs have either direct cytotoxic effects on tumor cells or work to stimulate the immune system in other ways. During 2017 summer we will continue to test the effects of two commonly used herbal products (reishi and Cordyceps) on metastatic abilities of breast cancer cells.

Will any other people (post docs, grad students, undergraduate students, colleagues, etc.) be involved directly with your teacher?
This summer I will have three high school and three undergraduate researchers in my lab.

B. Will you require any advanced reading/preparation for the teacher? If yes, please briefly describe.
Yes, I will provide several journal articles and several techniques manual. Early in the summer we will have regular meeting to review the scientific principles and techniques as a research group.