# Pedagogical Content Knowledge Worksheet

1. What is your discipline?

Put most broadly, my discipline is known as Computing. This encompasses a number of fields including Computer Science, Software Engineering, Computer Engineering and Formal Logics

1. How do you work to develop your disciplinary knowledge?

The core way you develop knowledge in Computing is through practical application, i.e., actively developing software with new and exciting tools. There is a never ending release of new programming languages and API's that present new knowledge in Computing. However I also read papers and attend conferences and review knowledge from my undergrad through textbooks/blogs/youtube videos

1. How do you work to develop your pedagogical knowledge?

By taking courses on education (like this one), auditing other teachers lessons and reading existing literature in journals etc

1. Prior to this week’s viewing, had you ever heard of pedagogical content knowledge?

No but it's something I've always implicitly assumed existed

1. What signature pedagogies are often used in your discipline?

I had to google this and found a-lot of information about what qualifies as a "signature pedagogy" but almost no examples of commonly used ones and absolutely no empirical data/surveys pertaining to signature pedagogies used in Computing. I know anecdotally "Experiential Learning" (if that qualifies as a signature pedagogy) is a often thrown around buzz term for teaching in engineering in general at the moment, and there is also an emphasis on students actually using computers/technology to learn topics in computing and not a pencil and paper.

1. Are there other instructional approaches that you have found work well in your discipline?

I've come to believe using primarily project and participation based assessment is most appropriate for my discipline, and enforcing structure on how to approach projects (breaking up large projects into many small parts that have frequent scheduled submissions) is very beneficial

1. How do you work to develop your pedagogical content knowledge?

I just heard about this today, and I suppose I've assumed reflecting on how I have learned my discipline and combining it with formal pedagogical knowledge I've acquired would be sufficient but going forward I guess I'll try reading some of the journals I list in question 8

1. What are two teaching and learning journals in your discipline?

- ACM Transactions on Computing Education

- IEEE Transactions on Learning Technologies