

Technological Pedagogical Content Knowledge (TPACK)



What is TPACK?

TPACK is a framework that teachers can use to help them identify knowledge they might need to focus on to be able to teach effectively with technology.

It builds upon the work of Shulman's idea of Pedagogical Content Knowledge: http://en.wikipedia.org/wiki/Lee_Shulman.

Using their Venn diagram the aim is to equally apply the three separate areas of knowledge.

Technological Knowledge

This is the knowledge and mastery of technology so that an educator can use & confidently plan use of technology in the classroom including when it is not required.

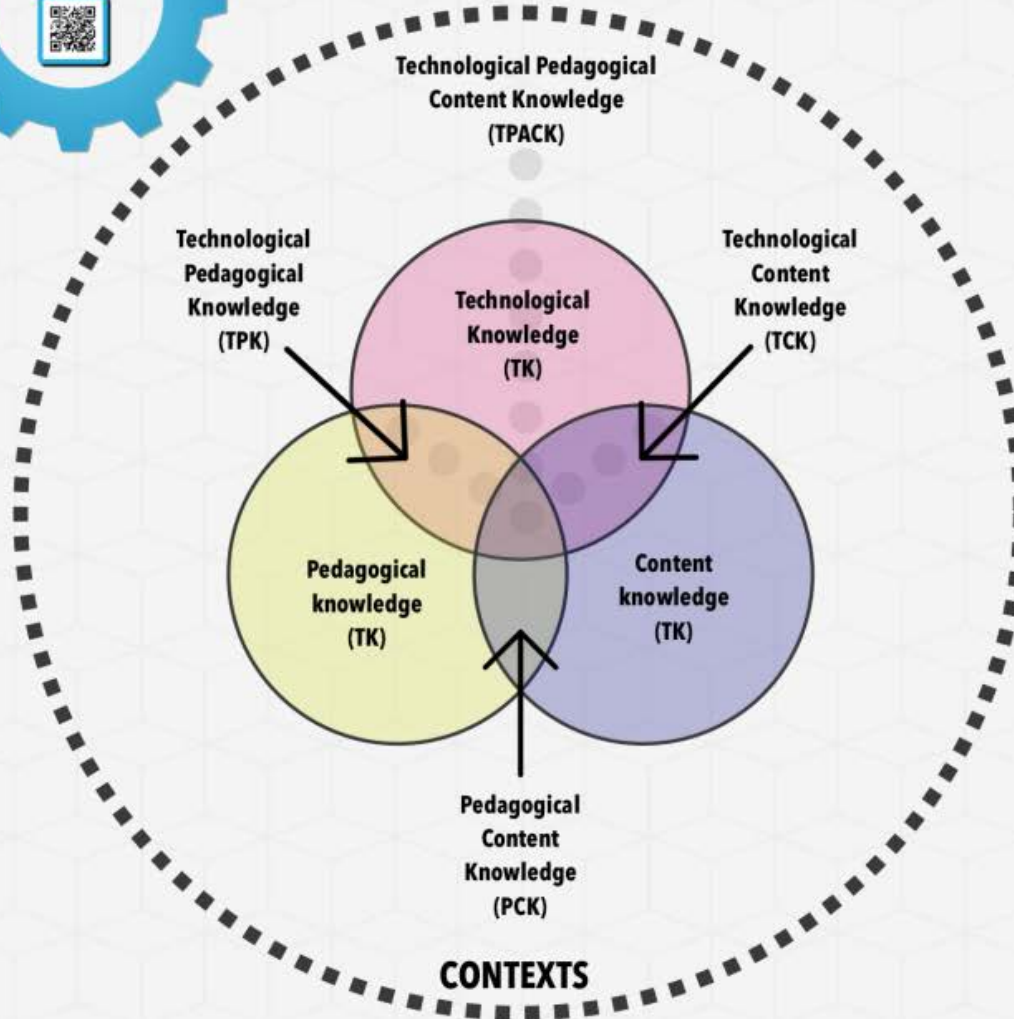
Pedagogical Knowledge

This is the knowledge and practice of teaching & learning that an educator can use such as classroom management, taxonomies, planning & assessment.

Content Knowledge

This is the knowledge of subject content such as concepts, theories, ideas, frameworks, evidence & proof and established practices including ways to develop such knowledge.

(TPACK)



Pedagogical Content Knowledge

PCK links together the pedagogical and content knowledge to bring about learning that is built upon strong subject knowledge and teaching & learning strategies.

Technological Content Knowledge

TCK links together technology and content knowledge to bring about learning that is built upon strong subject knowledge and a mastery of "more than the subject they teach."*

Technological Pedagogical Knowledge

TPK is "an understanding of how teaching & learning can change when particular technologies are used in particular ways."*
Knowing a range of tools & their appropriateness within different strategies.

Technological Pedagogical Content Knowledge TPACK

This is truly meaningful, deeply skilled teaching with or without (because sometimes this can be the best choice) technology. It differs from three individual concepts because to embrace all three simultaneously requires a deep understanding of how all three can work together to bring about the best technologically and pedagogically sound learning based upon a deep understanding of subject matter.

An example of this might be a lesson plan based upon assessment (PK) which looks at the content matter (CK) which examines how technology (TK) could transform learning.

TPACK is truly meaningful, deeply skilled teaching with or without (because sometimes this can be the best choice) technology."