

Questionnaire to Measure Perceived Technology Integration Knowledge of Teachers (TPCK)

Zahra Hosseini and Anand Kamal

Select one level of agreement for each statement to indicate how you at this time. Place an “x” in the appropriate cell/box. SD = Strongly Disagree D = Disagree U = Undecided A = Agree SA = Strongly Agree

<i>Item for measuring Technology Knowledge</i>	SD	D	U	A	SA
1. I know how to solve my own technical problems					
2. I can learn technology easily					
3. I keep up with important new technologies					
4. I frequently play around the technology.					
5. I know about a lot of different technologies.					
6. I have the technical skills I need to use technology.					
7. I have had sufficient opportunities to work with different technologies.					
8. I can use technology tools to process data and report results.					
9. I can use technology in the development of strategies for solving problems in the real world.					
10. I have ability to design webpages and to use authoring software					
11. I understand the legal, ethical, cultural, and societal issues related to technology.					

<i>Item for measuring Pedagogy Knowledge</i>	SD	D	U	A	SA
1. I know how to assess student performance in a classroom.					
2. I can adapt my teaching based-upon what students currently understand or do not understand.					
3. I can use a wide range of teaching approaches in a classroom setting (collaborative learning, direct instruction, inquiry learning, problem/project based learning etc.).					
4. I am familiar with common student understandings and misconceptions					
5. I know how to organize and maintain classroom management					
6. I can assess student learning in multiple ways.					
7. I can adapt my teaching style to different learners.					

<i>Item for measuring Content Knowledge</i>	SD	D	U	A	SA
1. I have sufficient knowledge about (the particular content)					
2. I can use (the particular subject) as the way of thinking.					
3. I have various ways and strategies of developing my understanding of (the particular content)					
4. I have sufficient knowledge about structure of knowledge (the particular content).					
5. I know concept, facts, theories and procedure within the (the particular content)					
6. I believe in the validity and reliability of the (the particular content)					

<i>Item for measuring Technological Content Knowledge</i>	SD	D	U	A	SA
1. I know about technologies that I can use for understanding (the particular content)					
2. I know how to use of specific software and Web sites about (the particular content).					
3. I can find and evaluate the resources that I need for (the particular content)					
4. I can use technology for presenting (the particular content).					
5. I can use technology tools and resources for managing and communicating information of (the particular content).					

<i>Item for measuring Pedagogical Content Knowledge</i>	SD	D	U	A	SA
1. I know how to select effective teaching approaches to guide student thinking and learning in (the particular content).					
2. I know the purposes and objectives for (the particular content).					
3. I am able to manage of my students' learning about (the particular content).					
4. I have the curricular knowledge (horizontal and vertical) of (the particular content)					
5. I know instructional strategies that are suitable for the topic (content).					
6. I know prior knowledge of students about (the particular content).					
7. I know how and what to assess of (the particular content).					

<i>Item for measuring Technological Pedagogical Knowledge</i>	SD	D	U	A	SA
1. I can choose technologies that enhance the teaching approaches for a lesson.					
2. I can choose technologies that enhance students' learning for a lesson.					
3. I am thinking critically about how to use technology in my classroom.					
4. I can adapt the use of the technologies that I am learning about to different teaching activities.					
5. My teacher education program has caused me to think more deeply about how technology could influence the teaching approaches I use in my classroom					
6. I can use technology resources to facilitate higher order thinking skills, including problem solving, critical thinking, decision-making, knowledge and creative thinking.					
7. I can use technology tools and information resources to increase productivity.					
8. I can infuse technology to strategies of teaching.					
9. I can use technology for more collaboration and communication among students and with teacher too.					
10. I know how to use technology to facilitate academic learning.					

<i>Item for measuring Technological Pedagogical Content Knowledge</i>	SD	D	U	A	SA
1. I can teach lessons that appropriately combine (the particular content), technologies and teaching approaches.					
2. I can select technologies to use in my classroom that enhance what I teach, how I teach and what students learn.					
3. I can use strategies that combine (the particular content), technologies and teaching approaches that I learned about in my coursework in my classroom.					
4. I can provide leadership in helping others to coordinate the use of (the particular content), technologies and teaching approaches at my school and/or district.					
5. I can choose technologies that enhance the learning of (the particular content) for a lesson.					
6. I can evaluate and select new information resources and technological innovations based on their appropriateness to specific tasks in (the particular content). *					
7. I can use (the particular content)-specific tools (e.g., software, simulation, environmental probes, graphing calculators, exploratory environments, Web tools) to support learning and research. *					