

Summary of results for PCK-in action.

Scores represent frequencies: 0 = never, 3 = in some lessons, 5 = in every lesson.

Online supplement to: Smit, E., Tuithof, H. & Béneker, T. (2023) Portraying the developing PCK of Dutch pre-service geography teachers

PCK-Element	Average	StDev
Instructional Strategies: Teacher Activities		
Lecture	3,91	0,79
General Class Discussion	3,4	0,8
Inquiry Based Learning	2,78	0,85
Fieldwork	1,46	0,72
Practical Work	1,94	0,85
Use of geographical resources	3,29	0,74
Other	2,19	1,26
Instructional Strategies: Student Activities		
Describing/Relating concepts	3,68	0,77
Use of Concepts in Context	3,65	0,78
Use of photo's, movies, stories	3,84	0,73
Use of maps and data	3,14	0,57
Analysis of Regions	2,79	0,9
Analysis of (spatial) problems	2,75	0,91
Problem Solving	2,85	0,88
Futures Thinking	2,94	0,75
Opinion Forming	2,48	0,88

Map Production	1,81	0,84
Other	1,7	1,1
Instructional Strategies (strategies to facilitate student learning)		
Use of everyday language	4,2	0,83
Use of visuals	4,1	0,75
Active Learning	3,84	0,78
Connecting to everyday life	3,84	0,76
Repeating Lessons	3,52	1,01
Present lesson goals	4,06	1
Differentiating	3,4	0,91
Relating to current events	3,75	0,77
Give students choice	3,28	0,85
Use scaffolding	2,66	1,21
Use of checklists	2,66	1,23
Use of personal stories	3,15	0,86
Experiential learning	2,03	1,01
Other	1,13	0,33
Knowledge of Student Understanding		
Prior knowledge and skills	4	0,69
Engaging Students	3,74	0,8
Student Attitudes	3,49	0,98
Student Diversity	3,38	1,07
Alternative Conceptions	3,44	0,91
Other	1,5	1,02

Knowledge of Assessment		
Formative by teacher	3,13	0,92
Written test	2,86	0,79
Non-written test	2,55	0,84
Formative by peer	3,07	0,92
Formative by self	1,88	1,06
Other	2,6	1,54
Curriculum influences		
Text Books	3,84	1,03
Teacher Interest	3,26	0,93
Student Interest	3,2	0,86
National Standards	3,32	1,26
Geography Department	2,96	1,33
School Curriculum	2,88	1,4
National Exams	2,49	1,39
Sequence of Topics	3,1	1,23
Mentor	1,7	1,11
Other	1,2	0,6