

Appendix A Technology Science Teaching Efficacy Beliefs Survey

(Adapted from Bleicher, 2004; Wang et al., 2014)

Purpose: The purpose of this survey is to determine your beliefs and perceptions on using mobile technologies in your science teaching. Mobile technologies refer to using mobile devices such as laptops, iPads, tablets, iPods, and smart phones to support teaching and learning in elementary science classrooms.

Please circle your choices for each statement on the sheet that best matches the degree to which you agree with each statement below.

5 = STRONGLY AGREE
4 = AGREE
3 = UNCERTAIN
2 = DISAGREE
1 = STRONGLY DISAGREE

		SA	A	UN	D	SD
1.	I feel confident that I understand mobile technologies well enough to maximize their use in my classroom.	5	4	3	2	1
2.	I feel confident that I have the skills necessary to use mobile technologies for instruction.	5	4	3	2	1
3.	I feel confident that I can successfully teach relevant science content with appropriate use of mobile technology.	5	4	3	2	1
4.	I feel confident in my ability to continually find better ways to teach science using mobile technologies.	5	4	3	2	1
5.	I feel confident that I can help students when they have difficulty with using mobile devices during science instruction.	5	4	3	2	1
6.	I feel confident that I can effectively monitor students' use of mobile devices during science instruction in my classroom.	5	4	3	2	1
7.	I will generally teach science effectively using mobile technology.	5	4	3	2	1
8.	I feel confident that I can motivate my students to participate in science lessons using mobile technology.	5	4	3	2	1
9.	I feel confident that I can mentor students in appropriate uses of mobile-technology to learn science.	5	4	3	2	1

		SA	A	UN	D	SD
10.	I feel confident that I can consistently use mobile technology in effective ways to teach science.	5	4	3	2	1
11.	I know the steps necessary to teach science concepts effectively using mobile technology.	5	4	3	2	1
12.	I feel confident that I can regularly incorporate mobile technologies for my science classes.	5	4	3	2	1
13.	I feel confident about assigning, grading and providing feedback on science projects using mobile technologies.	5	4	3	2	1
14.	I feel confident about selecting appropriate technology resources, software and products to improve science instruction.	5	4	3	2	1
15.	I feel comfortable using mobile-technologies in my science teaching.	5	4	3	2	1
16.	I will be responsive to students' needs during teaching science using mobile-technology.	5	4	3	2	1
17.	When teaching science using mobile-technologies, I will usually welcome student questions.	5	4	3	2	1
18.	I feel confident that as time goes by, my ability to address my students' needs for learning science using mobile-technologies will continue to improve.	5	4	3	2	1
19.	I feel confident that I can develop creative ways to teach science using mobile technology.	5	4	3	2	1
20.	I will typically be able to answer students' science questions while they engage in learning science through mobile-technologies.	5	4	3	2	1