Name: _____ **Date:** _____

Survey of Teachers' Attitudes Toward Computers

To the Educator:

This questionnaire is composed of well-validated portions of several attitudinal surveys that have been used with teachers in the past. We will use the combined information to help develop a profile of how teachers view technology. Please complete all items even if you feel that some are redundant. This may require 20-30 minutes of your time. Usually it is best to respond with your first impression, without giving a question much thought. Your answers will remain confidential.

Thank you for your cooperation!

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Background Information

1. How long have you been teaching?

   _____ 0-1 years _____ 2-5 years _____ 6-10 years

   _____ 11-15 years _____ 15+ years

2. How would you rate your experience with computers? (Check all that apply)

   _____ I have never used a computer and I don't plan to anytime soon.

   _____ I have never used a computer but I would like to learn.

   _____ I use applications like word processing, spreadsheets, etc.

   _____ I use computers for instruction in the classroom.
   How often?

   _____ Daily

   _____ Weekly

   _____ Occasionally

3. Currently I use the computer approximately _____ hours per week in the classroom.

4. At the beginning of this school year, I used the computer approximately _____ hours per week in the classroom.

5. If you do use computers, what type of training have you received? (Rank order all that apply).

   _____ No training

   _____ Basic Computer Literacy (on/off operations, how to run programs)

   _____ Computer applications (word processing, spreadsheets)

   _____ Computer integration (how to use in classroom curriculum)

6. Where did you receive your training? (Rank order all that apply).

   _____ Self-taught

   _____ School district

   _____ College or university

   _____ Other- please specify _____

Do you have a computer at home? ___ Yes ___ No Gender: ___ M ___ F

Age: ___ 18-25 ___ 26-30 ___ 31-35 ___ 36-40 ___ 41-45 ___ 46+

Instructions: Please read each statement and then circle the number which best shows how you feel.

SD = Strongly Disagree D = Disagree A = Agree SA = Strongly Agree

Part 1

from Computer Attitude Questionnaire, Knezek & Miyashita, 1994		SD	D	A	SA
(1)	I enjoy doing things on a computer.	1	2	3	4
(2)	I am tired of using a computer.	1	2	3	4
(3)	I will be able to get a good job if I learn how to use a computer.	1	2	3	4
(4)	I concentrate on a computer when I use one.	1	2	3	4
(5)	I enjoy computer games very much.	1	2	3	4
(6)	I would work harder if I could use computers more often.	1	2	3	4
(7)	I think that it takes a long time to finish when I use a computer.	1	2	3	4
(8)	I know that computers give me opportunities to learn many new things.	1	2	3	4
(9)	I can learn many things when I use a computer.	1	2	3	4
(10)	I enjoy lessons on the computer.	1	2	3	4
(11)	I believe that the more often teachers use computers, the more I will enjoy school.	1	2	3	4
(12)	I believe that it is very important for me to learn how to use a computer.	1	2	3	4
(13)	I think that computers are very easy to use.	1	2	3	4
(14)	I would like to study with a teacher rather than using a computer.	1	2	3	4
(15)	I feel comfortable working with a computer.	1	2	3	4
(16)	I get a sinking feeling when I think of trying to use a computer.	1	2	3	4
(17)	Working with a computer makes me nervous.	1	2	3	4
(18)	Using a computer is very frustrating.	1	2	3	4
(19)	I will do as little work with computers as possible.	1	2	3	4
(20)	Computers are difficult to use.	1	2	3	4
(21)	Computers do not scare me at all.	1	2	3	4
(22)	I can learn more from books than from a computer.	1	2	3	4

Instructions: Mark one space between each adjective pair.

from The Computer Attitude Measure (CAM), Kay, 1993

Part 2

Computers are:

1.	Unlikable	_____ _____ _____ _____ _____ _____ _____	Likable	(41)
2.	Unhappy	_____ _____ _____ _____ _____ _____ _____	Happy	(42)
3.	Bad	_____ _____ _____ _____ _____ _____ _____	Good	(43)
4.	Unpleasant	_____ _____ _____ _____ _____ _____ _____	Pleasant	(44)
5.	Tense	_____ _____ _____ _____ _____ _____ _____	Calm	(45)
6.	Uncomfortable	_____ _____ _____ _____ _____ _____ _____	Comfortable	(46)
7.	Artificial	_____ _____ _____ _____ _____ _____ _____	Natural	(47)
8.	Empty	_____ _____ _____ _____ _____ _____ _____	Full	(48)
9.	Dull	_____ _____ _____ _____ _____ _____ _____	Exciting	(49)
10.	Suffocating	_____ _____ _____ _____ _____ _____ _____	Fresh	(50)

Part 3

Instructions: Please read each statement and circle the number that best describes how you feel about that statement.

1 = Strongly Disagree (SD)
2 = Disagree (D)
3 = Undecided (U)
4 = Agree (A)
5 = Strongly Agree (SA)

Computer Attitude Scale, Loyd & Gressard, 1984		SD	D	U	A	SA
1.	Computers do not scare me at all. (51)	1	2	3	4	5
2.	I'm no good with computers. (52)	1	2	3	4	5
3.	I would like working with computers. (53)	1	2	3	4	5
4.	I will use computers many ways in my life. (54)	1	2	3	4	5
5.	Working with a computer would make me very nervous. (55)	1	2	3	4	5
6.	Generally I would feel OK about trying a new problem on the computer. (56)	1	2	3	4	5
7.	The challenge of solving problems with computers does not appeal to me. (57)	1	2	3	4	5
8.	Learning about computers is a waste of time. (58)	1	2	3	4	5

Computer Attitude Scale, Loyd & Gressard, 1984 (Cont,)

			SD	D	U	A	SA
9.	I do not feel threatened when others talk about computers.	(59)	1	2	3	4	5
10.	I don't think I would do advanced computer work.	(60)	1	2	3	4	5
11.	I think working with computers would be enjoyable and stimulating.	(61)	1	2	3	4	5
12.	Learning about computers is worthwhile.	(62)	1	2	3	4	5
13.	I feel aggressive and hostile toward computers.	(63)	1	2	3	4	5
14.	I am sure I could do work with computers.	(64)	1	2	3	4	5
15.	Figuring out computer problems does not appeal to me.	(65)	1	2	3	4	5
16.	I'll need a firm mastery of computers for my future work.	(66)	1	2	3	4	5
17.	It wouldn't bother me at all to take computer courses.	(67)	1	2	3	4	5
18.	I'm not the type to do well with computers.	(68)	1	2	3	4	5
19.	When there is a problem with a computer run that I can't immediately solve, I would stick with it until I have the answer.	(69)	1	2	3	4	5
20.	I expect to have little use for computers in my daily life.	(70)	1	2	3	4	5
21.	Computers make me feel uncomfortable.	(71)	1	2	3	4	5
22.	I am sure I could learn a computer language.	(72)	1	2	3	4	5
23.	I don't understand how some people can spend so much time working with computers and seem to enjoy it.	(73)	1	2	3	4	5
24.	I can't think of any way that I will use computers in my career.	(74)	1	2	3	4	5
25.	I would feel at ease in a computer class.	(75)	1	2	3	4	5
26.	I think using a computer would be very hard for me.	(76)	1	2	3	4	5
27.	Once I start to work with the computer, I would find it hard to stop.	(77)	1	2	3	4	5
28.	Knowing how to work with computers will increase my job possibilities.	(78)	1	2	3	4	5
29.	I get a sinking feeling when I think of trying to use a computer.	(79)	1	2	3	4	5
30.	I could get good grades in computer courses.	(80)	1	2	3	4	5
31.	I will do as little work with computers as possible.	(81)	1	2	3	4	5
32.	Anything that a computer can be used for, I can do just as well some other way.	(82)	1	2	3	4	5
33.	I would feel comfortable working with a computer.	(83)	1	2	3	4	5

Computer Attitude Scale, Loyd & Gressard, 1984 (Cont,)

			SD	D	U	A	SA
34.	I do not think I could handle a computer course.	(84)	1	2	3	4	5
35.	If a problem is left unsolved in a computer class, I would continue to think about it afterward.	(85)	1	2	3	4	5
36.	It is important to me to do well in computer classes.	(86)	1	2	3	4	5
37.	Computers make me feel uneasy and confused.	(87)	1	2	3	4	5
38.	I have a lot of self-confidence when it comes to working with computers.	(88)	1	2	3	4	5
39.	I do not enjoy talking with others about computers.	(89)	1	2	3	4	5
40.	Working with computers will not be important to me in my life's work.	(90)	1	2	3	4	5

Part 3

from Pelgrum & Plomp, 1989

Part 4

1.	Computers can help me to learn things more easily.	(91)	1	2	3	4	5
2.	With computers it is possible to do practical things.	(92)	1	2	3	4	5
3.	Knowing how to use computers will help me do well in my career.	(93)	1	2	3	4	5
4.	Knowing how to use computers is a worthwhile skill.	(94)	1	2	3	4	5
5.	All students should have an opportunity learn about computers at school.	(95)	1	2	3	4	5
6.	It is important for students to learn about computers in order to be informed citizens.	(96)	1	2	3	4	5
7.	Having computer skills helps you get better jobs.	(97)	1	2	3	4	5
8.	I like to talk to others about computers.	(98)	1	2	3	4	5
9.	Computers can be exciting.	(99)	1	2	3	4	5
10.	I like reading about computers.	(100)	1	2	3	4	5
11.	A job using computers would be very interesting.	(101)	1	2	3	4	5
12.	Computer lessons are a favorite subject for me.	(102)	1	2	3	4	5
13.	I want to learn a lot about computers.	(103)	1	2	3	4	5
14.	I like to scan computer journals.	(104)	1	2	3	4	5
15.	When I pass a computer shop, usually I stop for a while.	(105)	1	2	3	4	5
16.	Computers interest me little.	(106)	1	2	3	4	5

SD = Strongly Disagree D = Disagree A = Agree SA = Strongly Agree

Measurement of Computer Attitudes, Comparison by Gardner, Discenza & Dukes, 1993

Part 5

from BELCAT (Blomberg, Erickson, Lowery Computer Attitude Task), Erickson, 1987

			SD	D	U	A	SA
1.	Knowing about computers will help me earn a living.	(109)	1	2	3	4	5
2.	I get a sinking feeling when I think of trying to do something hard with a computer.	(110)	1	2	3	4	5
3.	A computer test would scare me.	(112)	1	2	3	4	5
4.	I'll need computers for my future work.	(113)	1	2	3	4	5
5.	I'm really going to need computer skills after I finish school.	(115)	1	2	3	4	5
6.	I'd be proud to be the outstanding student in a computer class.	(116)	1	2	3	4	5
7.	I'd like people to think I was smart with computers.	(121)	1	2	3	4	5
8.	I see the computer as something I will rarely use in my daily life as an adult.	(123)	1	2	3	4	5
9.	It would make me happy if people thought I was really good with computers.	(128)	1	2	3	4	5
10.	I don't like people to think I'm smart with computers.	(129)	1	2	3	4	5

from ATC (Attitudes Toward Computers), Raub, 1981

11.	Computers have the potential to control our lives.	(134)	1	2	3	4	5
12.	Our country relies too much on computers.	(135)	1	2	3	4	5
13.	I will use a computer in my future occupation.	(137)	1	2	3	4	5
14.	Computers dehumanize society by treating everyone as a number.	(138)	1	2	3	4	5
15.	Computers will create more jobs than they eliminate	(140)	1	2	3	4	5
16.	I feel apprehensive about using a computer terminal.	(141)	1	2	3	4	5
17.	Computers are changing the world too rapidly.	(142)	1	2	3	4	5
18.	Computers isolate people by inhibiting normal social interactions among users.	(144)	1	2	3	4	5
19.	I hesitate to use a computer for fear of making mistakes I cannot correct.	(145)	1	2	3	4	5

Part 5

from CAIN, Maurer, 1983

			SD	D	U	A	SA
20.	Having a computer available to me would improve my productivity.	(146)	1	2	3	4	5
21.	If I had to use a computer for some reason, it would probably save me some time and work.	(147)	1	2	3	4	5
22.	If I used a computer, I could get a better picture of the facts and figures.	(148)	1	2	3	4	5
23.	Having a computer available to me would improve my general satisfaction.	(149)	1	2	3	4	5
24.	If I had a computer at my disposal, I would try to get rid of it.	(150)	1	2	3	4	5
25.	Computers are probably going to be an important part of my life.	(151)	1	2	3	4	5
26.	I sometimes get nervous just thinking about computers.	(153)	1	2	3	4	5
27.	I will probably never learn to use a computer.	(154)	1	2	3	4	5
28.	I sometimes feel intimidated when I have to use a computer.	(157)	1	2	3	4	5

Part 6

Comparison of Four Computer Attitude Scales, Woodrow, 1991

from Computer Use Questionnaire, Griswold, 1983

1.	Computers will improve education.	(162)	1	2	3	4	5
2.	If there was a computer in my classroom it would help me to be a better teacher.	(163)	1	2	3	4	5
3.	Someday I will have a computer in my home.	(164)	1	2	3	4	5
4.	Computers can teach mathematics.	(165)	1	2	3	4	5
5.	Computers are beyond the understanding of the typical person.	(166)	1	2	3	4	5
6.	Computers could enhance remedial instruction.	(168)	1	2	3	4	5
7.	Computers will relieve teachers of routine duties.	(169)	1	2	3	4	5
8.	Computers can be used successfully with courses which demand creative activities.	(170)	1	2	3	4	5

from The Computer Survey Scale, Stevens, 1982

9.	High school students should understand the role computers play in society.	(172)	1	2	3	4	5
10.	High school students should have some understanding about computers.	(173)	1	2	3	4	5
11.	Computers can be a useful instructional aid in almost all subject areas.	(175)	1	2	3	4	5

			SD	D	U	A	SA
12.	Use of computers in education almost always reduces the personal treatment of students.	(176)	1	2	3	4	5
13.	I feel at ease when I am around computers.	(177)	1	2	3	4	5
14.	Teacher training should include instructional applications of computers.	(179)	1	2	3	4	5
from Attitude Toward Computer Scale, Francis, 1993							
15.	Learning about computers is boring to me.	(180)	1	2	3	4	5
16.	I like learning on a computer.	(181)	1	2	3	4	5
17.	Working with a computer would make me very nervous.	(182)	1	2	3	4	5
18.	The challenge of solving problems with computers does not appeal to me.	(185)	1	2	3	4	5
19.	I think working with computers would be enjoyable and stimulating.	(186)	1	2	3	4	5
20.	Learning about computers is interesting.	(187)	1	2	3	4	5
21.	Computers are boring.	(189)	1	2	3	4	5
22.	Computers are not exciting.	(191)	1	2	3	4	5
23.	Studying about computers is a waste of time.	(192)	1	2	3	4	5
24.	It is fun to figure out how computers work.	(193)	1	2	3	4	5
25.	I enjoy learning how computers are used in our daily lives.	(195)	1	2	3	4	5
from CAM (Computer Attitude Measure), Kay, 1993							
26.	Computers would motivate students.	(196)	1	2	3	4	5
27.	Computers would significantly improve the overall quality of my students' education.	(197)	1	2	3	4	5
28.	Computers would help students improve their writing.	(198)	1	2	3	4	5
29.	Computers would stimulate creativity in students.	(199)	1	2	3	4	5
30.	Computers would help students work with one another.	(200)	1	2	3	4	5
31.	Computers would help me organize my work.	(201)	1	2	3	4	5

Part 7

			SD	D	U	A	SA
32.	Computers would increase my productivity.	(202)	1	2	3	4	5
33.	Computers would save me time.	(203)	1	2	3	4	5
34.	Computers would help me learn.	(204)	1	2	3	4	5
35.	Computers would help me organize my finances.	(205)	1	2	3	4	5
36.	Computers improve the overall quality of life.	(207)	1	2	3	4	5

from CARS, Chu & Spires, 1991

1.	I look forward to using a computer on my job.	(209)	1	2	3	4	5
2.	The challenge of learning about computers is exciting.	(211)	1	2	3	4	5
3.	Learning to operate computers is like learning any new skill - the more you practice, the better you become.	(214)	1	2	3	4	5
4.	I am afraid that if I begin to use computers I will become dependent upon them and lose some of my reasoning skills.	(215)	1	2	3	4	5
5.	I am sure that with time and practice I will be as comfortable working with computers as I am working with a typewriter.	(216)	1	2	3	4	5
6.	I dislike working with machines that are smarter than I am.	(218)	1	2	3	4	5
7.	I feel apprehensive about using computers.	(219)	1	2	3	4	5
8.	If given the opportunity, I would like to learn about and use computers.	(224)	1	2	3	4	5
9.	I have avoided computers because they are unfamiliar and somewhat intimidating to me.	(225)	1	2	3	4	5
10.	I feel computers are necessary tools in both educational and work settings.	(226)	1	2	3	4	5

from CASS, Jones & Clarke, 1994

11.	Computers intimidate and threaten me.	(227)	1	2	3	4	5
12.	Working with a computer makes me feel tense and uncomfortable.	(230)	1	2	3	4	5
13.	Computers are difficult to understand.	(231)	1	2	3	4	5
14.	I feel important when others ask me for information about computers.	(236)	1	2	3	4	5
15.	Using the computer has increased my interaction with other students.	(237)	1	2	3	4	5

			SD	D	U	A	SA
16.	Anything that a computer can be used for, I can do just as well in another way.	(239)	1	2	3	4	5
17.	Working with computers makes me feel isolated from other people.	(241)	1	2	3	4	5
18.	Working with computers will not be important to me in my career.	(242)	1	2	3	4	5
19.	I would like to spend more time using a computer.	(243)	1	2	3	4	5
20.	If I can, I will take subjects that will teach me to use computers.	(246)	1	2	3	4	5
21.	People who work with computers sit in front of a computer screen all day.	(248)	1	2	3	4	5
22.	I would like to learn more about computers.	(249)	1	2	3	4	5
23.	Working with computers means working on your own, without contact with others.	(251)	1	2	3	4	5
24.	If I need computer skills for my career choice, I will develop them	(252)	1	2	3	4	5
25.	Working with a computer makes me feel very nervous.	(256)	1	2	3	4	5
26.	Using a computer prevents me from being creative.	(257)	1	2	3	4	5
27.	Computers are confusing.	(259)	1	2	3	4	5
28.	Computers make me feel uncomfortable.	(260)	1	2	3	4	5
29.	You have to be a "brain" to work with computers.	(261)	1	2	3	4	5
30.	Not many people can use computers.	(262)	1	2	3	4	5
31.	I get a sinking feeling when I think of trying to use a computer.	(263)	1	2	3	4	5
32.	Computers frustrate me.	(264)	1	2	3	4	5

from Attitudes Toward Computers Scale, Reece & Gable, 1982

33.	I will use a computer as soon as possible.	(266)	1	2	3	4	5
34.	I will take computer courses.	(267)	1	2	3	4	5
35.	Computers can be used to save lives.	(268)	1	2	3	4	5
36.	I enjoy computer work.	(270)	1	2	3	4	5
37.	I would never take a job where I had to work with computers.	(272)	1	2	3	4	5

Part 8

Instructions: Please circle the appropriate number to indicateyour agreement or disagreement with each statement.

1 = Strongly Disagree (SD)
2 = Disagree (D)
3 = Undecided (U)
4 = Agree (A)
5 = Strongly Agree (SA)

from D'Souza, 1992		SD	D	U	A	SA
1. Electronic mail (E-mail) is an effective means of disseminating class information and assignments.	(274)	1	2	3	4	5
2. I prefer E-mail to traditional class handouts as an information disseminator.	(275)	1	2	3	4	5
3. More courses should use E-mail to disseminate class information and assignments.	(276)	1	2	3	4	5
4. E-mail provides better access to the instructor.	(277)	1	2	3	4	5
5. The use of E-mail creates more interaction:						
between students enrolled in the course	(278)	1	2	3	4	5
between student and instructor	(279)	1	2	3	4	5
6. The use of E-mail increases motivation for the course.	(280)	1	2	3	4	5
7. The use of E-mail makes the course more interesting.	(281)	1	2	3	4	5
8. The use of E-mail makes the student feel more involved.	(282)	1	2	3	4	5
9. The use of E-mail helps the student to learn more.	(283)	1	2	3	4	5
10. The use of E-mail helps provide a better learning experience.	(284)	1	2	3	4	5

(End)

Thank you!

Ver 2.22
4/97