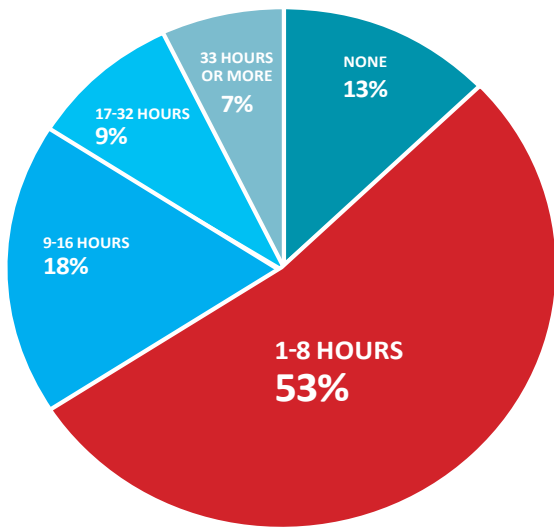
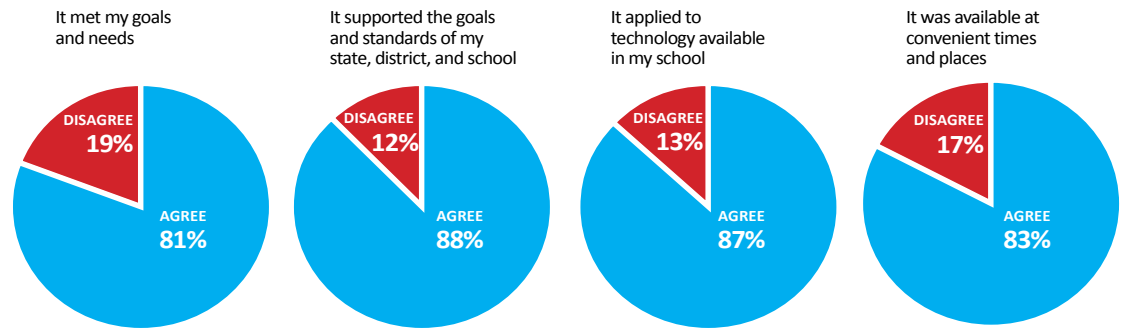


Time spent in professional development for educational technology during one year



Teachers' response to their professional development for educational technology



Teachers & Technology

This year, the *Technology Counts* data section shines the spotlight on teachers' use of technology.

One point many ed-tech experts make in the stories in this report is that using digital tools to personalize learning cannot be done effectively without good teachers who know how to use and integrate digital tools into learning. In particular, they need to know how to deploy those tools so that students take more control of how they are learning content, whether through online research tailored to students' interests, social-networking sites to collaborate with peers or experts, or audio and visual tools to enhance understanding of a particular topic or concept.

To give readers a sense of how teachers are doing in this area, this technology-data section includes a host of statistics related to the role of technology and teachers in customizing education for all students. Those statistics include snapshots of teacher use of simulation and visualization technologies, online research tools, interactive whiteboards, social-networking sites, and blogs and wikis, as well as a look at how often teachers use educational technology with students to solve problems, conduct experiments, create art or music, or design and produce products.

All the data in this section came from "Teachers' Use of Educational Technology in U.S. Public Schools: 2009," a report published by the U.S. Department of Education in May 2010.

TECHNOLOGY DEVICES ▶ Percent of teachers with computers in the classroom

	COMPUTERS IN THE CLASSROOM EVERY DAY			COMPUTERS THAT CAN BE BROUGHT INTO THE CLASSROOM			TOTAL COMPUTERS (IN OR CAN BE BROUGHT INTO THE CLASSROOM)		
	Percent of teachers	Ratio of students in the classroom to computers	Percent of computers with Internet access	Percent of teachers	Ratio of students in the classroom to computers	Percent of computers with Internet access	Percent of teachers	Ratio of students in the classroom to computers	Percent of computers with Internet access
All	97	5.3	93	54	2.4	96	99	1.7	95
Elementary	98	5.4	92	52	2.6	96	99	1.7	95
Secondary	95	5.2	94	57	2.3	96	98	1.6	96

TECHNOLOGY AVAILABILITY ▶ Percent of teachers with availability of various technology devices

	LCD OR DLP PROJECTOR			VIDEOCONFERENCE UNIT			INTERACTIVE WHITEBOARD			CLASSROOM RESPONSE SYSTEM		
	Available as needed	In classroom every day	Use sometimes or often	Available as needed	In classroom every day	Use sometimes or often	Available as needed	In classroom every day	Use sometimes or often	Available as needed	In classroom every day	Use sometimes or often
All	36	48	72	21	1	13	28	23	57	22	6	35
Elementary	37	44	68	19	1	12	31	23	58	21	7	35
Secondary	33	56	78	23	2	15	23	23	58	24	6	34

	DIGITAL CAMERA			MP3 PLAYER/IPOD			DOCUMENT CAMERA			HAND-HELD DEVICE		
	Available as needed	In classroom every day	Use sometimes or often	Available as needed	In classroom every day	Use sometimes or often	Available as needed	In classroom every day	Use sometimes or often	Available as needed	In classroom every day	Use sometimes or often
All	64	14	49	18	5	36	22	17	56	8	4	50
Elementary	67	14	53	14	4	34	23	19	60	8	5	60
Secondary	57	13	41	24	6	37	23	13	48	8	2	28

TEACHER TRAINING IN TECHNOLOGY ▶ Percent of teachers reporting various kinds of training for use of educational technology for instruction

	UNDERGRADUATE TEACHER EDUCATION PROGRAM		GRADUATE TEACHER EDUCATION PROGRAM		PROFESSIONAL DEVELOPMENT ACTIVITIES		TRAINING PROVIDED BY STAFF RESPONSIBLE FOR TECHNOLOGY SUPPORT AND/OR INTEGRATION AT THE SCHOOL		INDEPENDENT LEARNING	
	Not applicable	Moderate or major extent	Not applicable	Moderate or major extent	Not applicable	Moderate or major extent	Not applicable	Moderate or major extent	Not applicable	Moderate or major extent
All	21	25	31	33	4	61	4	61	3	78
Elementary	20	25	32	33	3	64	4	64	3	78
Secondary	23	25	29	32	4	57	4	55	3	80

SOFTWARE USAGE ▶ Percent of teachers using software for instruction, or administrative tasks

	WORD PROCESSING		DATABASE-MANAGEMENT SOFTWARE		SPREADSHEETS AND GRAPHING SOFTWARE		SOFTWARE FOR MANAGING STUDENT RECORDS		SOFTWARE FOR DESKTOP PUBLISHING		GRAPHICS, IMAGE-EDITING SOFTWARE		SOFTWARE FOR MAKING PRESENTATIONS	
	Rarely	Sometimes or often	Rarely	Sometimes or often	Rarely	Sometimes or often	Rarely	Sometimes or often	Rarely	Sometimes or often	Rarely	Sometimes or often	Rarely	Sometimes or often
All	2	96	24	44	25	61	9	80	22	53	30	40	22	63
Elementary	2	96	23	44	26	61	11	75	20	57	28	43	25	58
Secondary	2	97	26	42	24	64	5	88	26	47	33	34	16	73

	SOFTWARE FOR ADMINISTERING TESTS		SIMULATION AND VISUALIZATION PROGRAMS		DRILL/PRACTICE PROGRAMS/TUTORIALS		SUBJECT-SPECIFIC PROGRAMS		THE INTERNET		BLOGS AND/OR WIKIS		SOCIAL-NETWORKING WEBSITES	
	Rarely	Sometimes or often	Rarely	Sometimes or often	Rarely	Sometimes or often	Rarely	Sometimes or often	Rarely	Sometimes or often	Rarely	Sometimes or often	Rarely	Sometimes or often
All	24	44	24	33	23	50	19	59	5	94	22	16	14	8
Elementary	24	43	24	33	23	56	18	62	4	95	21	14	14	8
Secondary	24	43	25	34	25	40	21	53	6	92	24	19	14	9

STUDENTS' USAGE OF TECHNOLOGY ▶ Percent of teachers reporting student frequency using educational technology in the classroom to:

	PREPARE WRITTEN TEXT		CREATE OR USE GRAPHICS OR VISUAL DISPLAYS		LEARN OR PRACTICE BASIC SKILLS		CONDUCT RESEARCH		CORRESPOND WITH OTHERS		CONTRIBUTE TO BLOGS OR WIKIS		USE SOCIAL-NETWORKING WEBSITES	
	Rarely	Sometimes or often	Rarely	Sometimes or often	Rarely	Sometimes or often	Rarely	Sometimes or often	Rarely	Sometimes or often	Rarely	Sometimes or often	Rarely	Sometimes or often
All	24	61	27	53	17	69	22	66	21	31	12	9	9	7
Elementary	27	57	29	49	15	76	23	64	20	26	10	7	7	6
Secondary	20	67	24	59	21	53	20	69	24	40	16	13	12	9

	SOLVE PROBLEMS, ANALYZE DATA, OR PERFORM CALCULATIONS		CONDUCT EXPERIMENTS OR PERFORM MEASUREMENTS		DEVELOP AND PRESENT MULTIMEDIA PRESENTATIONS		CREATE ART, MUSIC, MOVIES, OR WEBSITES		DEVELOP OR RUN DEMONSTRATIONS, MODELS, OR SIMULATIONS		DESIGN AND PRODUCE A PRODUCT	
	Rarely	Sometimes or often	Rarely	Sometimes or often	Rarely	Sometimes or often	Rarely	Sometimes or often	Rarely	Sometimes or often	Rarely	Sometimes or often
All	23	45	25	25	25	42	24	25	23	17	17	13
Elementary	21	45	24	23	26	35	25	21	21	14	15	11
Secondary	25	46	27	30	24	53	24	32	26	25	20	17

SOURCE: U.S. Department of Education