



Speak Up 2007

Teacher Survey

District: ANTIOCH COMM HIGH SCH DIST 117

Results based on 118 survey(s).

Responses to the science-specific questions (Q19-Q22) are based on total number of unique Survey ids for the school (or district, if it is a district report) and not the number of teacher who self-selected as science teachers

1 What is your current job responsibility?

Response	# of Responses	% of Responses	National %
Classroom teacher	87	74%	74%
Instructional aide	11	9%	3%
Special education teacher	9	8%	8%
Curriculum specialist	0	0%	2%
Librarian or media coordinator	2	2%	3%
School technology coordinator	0	0%	2%
Preservice Teacher	0	0%	0%
Other	9	8%	8%

2 What grade(s) do you currently teach?

Response	# of Responses	% of Responses	National %
pre-K	0	0%	2%
K-2	0	0%	17%
3-5	0	0%	21%
6-8	0	0%	23%
9-12	118	100%	26%
Ungraded	0	0%	2%
All grades	0	0%	9%

3 What subject area do you currently teach? (Select one)

Response	# of Responses	% of Responses	National %
Multiple subject (elementary)	0	0%	34%
English	27	23%	9%
Math	12	10%	9%
Social Studies or History	10	8%	5%
Science	10	8%	6%
Foreign language	6	5%	2%
Visual and performing arts	5	4%	4%
Yearbook or Journalism	1	1%	0%
Physical education	3	3%	3%
Technology	0	0%	4%
Business	5	4%	1%
Career Technical Education	3	3%	2%
Special education	18	15%	7%
English as a second language	0	0%	1%
Other	18	15%	11%

4 Thinking about other teachers at your school, do you consider yourself

Response	# of Responses	% of Responses	National %
An advanced tech user – more expert than most	47	40%	33%
An average tech user – the same as most	63	53%	56%
A beginner tech user – your skills are not as developed as most	8	7%	11%

5 Which of these activities do you do regularly using technology?

Response	# of Responses	% of Responses	National %
Create a multimedia presentation like Powerpoint	95	81%	59%
Create or listen to podcasts or videos	43	36%	35%
Download music	57	48%	37%
Email or IM a colleague or parent	113	96%	93%
Email or IM a student	98	83%	34%
Go to TV show websites to give feedback or vote	17	14%	15%
Maintain a personal website like MySpace or Facebook	20	17%	21%
Participate in online communities	18	15%	21%
Participate in virtual reality environments like Second Life	7	6%	2%
Personalize news feeds	12	10%	7%
Play online games	25	21%	29%
Read or post blog or wiki entries	15	13%	20%
Remix content (such as music, video, text)	10	8%	9%
None of the above	1	1%	2%

6 How do you use technology to facilitate student learning?

Response	# of Responses	% of Responses	National %
Set student objectives.	43	36%	43%
Provide feedback to students.	64	54%	43%
Share exemplary student work in classroom, school or with parents.	44	37%	32%
Create cues, questions or advanced organizers.	57	48%	41%
Create physical models or use pictures to represent knowledge.	57	48%	43%
Students create movies or animation projects.	29	25%	16%
Notetaking and synthesis of information.	77	65%	39%
Facilitate group collaboration and structure.	36	31%	29%
Track the relationship between effort and achievement.	17	14%	19%
Create graphic organizers for comparing, classifying, creating metaphors and analogies.	67	57%	43%
Homework and practice.	83	70%	51%
Conduct investigations.	27	23%	25%
None of the above.	5	4%	8%

7 In addition to knowing core content subjects, which of these skills do you think is most important for a student to be successful in the 21st century?

Response	# of Responses	% of Responses	National %
Ability to work in a global society	69	58%	59%
Communicate in more than one language	44	37%	37%

Collaboration skills	69	58%	62%
Communication skills	93	79%	81%
Contextual learning skills	47	40%	33%
Creativity and innovation skills	53	45%	52%
Effectively use technology	83	70%	74%
Experience solving complex problems and thinking through new ideas	63	53%	63%
Information and media literacy skills	52	44%	47%
None of the above	0	0%	0%
Other	5	4%	3%

8 Which tools are you using to develop the 21st century skills you selected above?

Response	# of Responses	% of Responses	National %
Digital whiteboards	10	8%	26%
E-mail, IM, blogs, wikis, or other Web 2.0 tools	87	74%	69%
Gaming technologies	14	12%	17%
Multimedia projects	68	58%	49%
Social networking tools	15	13%	16%
Student Response Systems	18	15%	16%
Virtual field trips	15	13%	22%
Podcasts	5	4%	7%
Virtual reality environments (e.g. Second Life)	5	4%	2%
None	8	7%	9%
Other	6	5%	6%

9 A new, emerging trend in education is the use of gaming technologies to provide contextual learning. Which of these statements describe your interest in this new trend?

Response	# of Responses	% of Responses	National %
I would be interested in learning more about integrating gaming technologies into my instructional strategies.	50	42%	52%
I would be interested in professional development in this.	58	49%	47%
I currently integrate gaming technologies into my classroom.	9	8%	11%
I would be interested in sharing ideas about gaming with other teachers	10	8%	7%
I would be interested in learning more about promising practices in gaming.	37	31%	29%
I am not interested in using gaming technologies in my classroom.	24	20%	13%

10 From what you have heard about using gaming technologies as an instructional tool, what do you think the value would be in your classroom?

Response	# of Responses	% of Responses	National %
Appeals to different learning styles	63	53%	65%
Increase student motivation and engagement.	68	58%	66%
Opportunities for students to develop their creativity.	40	34%	39%
Provides environment to visualize difficult concepts.	38	32%	35%
Student-centered learning.	49	42%	47%
Students can create models and test their assumptions.	22	19%	23%
Students can develop their collaboration skills.	34	29%	29%
Students can develop their problem-solving and critical thinking skills	45	38%	40%
Students can more deeply explore an	29	25%	24%

idea through the virtual world.			
Students can practice their skills and develop expertise.	32	27%	32%
Students gain experience through "trial and error."	44	37%	38%
Students learn that failure is an opportunity to learn.	32	27%	30%
I don't see the value of using gaming technologies in my classroom.	14	12%	6%
None of the above.	12	10%	8%

11 In the past 12 months, how have you been involved with online learning?

Response	# of Responses	% of Responses	National %
Explored opportunities for integrating online learning into my classroom.	30	25%	33%
Taught an online class.	2	2%	3%
Used a learning management system in my class.	6	5%	11%
Took an online class for personal enrichment.	10	8%	13%
Took an online class for career advancement.	13	11%	16%
Took an online class for professional development.	13	11%	21%
No involvement - but I'm interested.	41	35%	31%
No involvement - not interested.	14	12%	9%

12 What is your preferred method for professional development?

Response	# of Responses	% of Responses	National %
School or district-provided trainings	73	62%	63%
Podcasts, webcasts or videoconferencing	6	5%	8%
Peer-to-peer and study teams (in person)	27	23%	33%
Peer-to-peer and study teams (on line)	9	8%	8%
Online course	20	17%	27%
Conferences	62	53%	38%
Summer externships with local companies	12	10%	8%
School-based just-in-time mentoring	5	4%	7%
Publisher/vendor training	9	8%	8%
Other	1	1%	2%

13 What are the primary benefits of online professional development for you?

Response	# of Responses	% of Responses	National %
Fits my schedule	74	63%	67%
Saves time	49	42%	41%
Less expensive than alternatives.	26	22%	24%
I can control my own learning.	45	38%	41%
Supports my learning style.	20	17%	19%
Provides access to experts.	15	13%	15%
Just-in-time -- when I need it.	16	14%	14%
Other	0	0%	1%
None of the above.	13	11%	12%

14 There is a national discussion underway about the value of mobile learning devices such as laptops, smart cell phones, PDAs and MP3 players in education. What do you think is the most significant value of incorporating such devices into instruction?

Response	# of Responses	% of Responses	National %
Development of strong communications	34	29%	33%

skills			
Extends learning beyond the school day	43	36%	46%
Improves teacher skills with technology	36	31%	39%
Improves teacher-parent-student communications	34	29%	36%
Increases student engagement in school and learning	51	43%	51%
Increases teacher productivity	21	18%	23%
Personalized instruction	27	23%	30%
Prepares students for world of work	38	32%	41%
Provides opportunities for informal remediation	13	11%	20%
Students develop collaboration and teamwork skills	21	18%	21%
Students develop critical thinking and problem solving skills	21	18%	26%
No significant benefit	11	9%	6%
Other	3	3%	2%

15 Besides funding, what's needed to effectively utilize mobile devices or online learning in your classroom?

Response	# of Responses	% of Responses	National %
Examples of effective classroom practices.	66	56%	60%
Ensure that all students have access to devices or software.	64	54%	65%
District support for use of these devices.	62	53%	54%
Teachers I could talk to about incorporating the devices into my instruction.	38	32%	37%
School policies that allow the use of these tools.	47	40%	33%
Professional development on how to effectively integrate these devices into my instructional strategies.	60	51%	58%
Ongoing mentoring	21	18%	29%
Ongoing technical support	49	42%	52%
These devices are a distraction and should not be incorporated into the classroom.	6	5%	3%
Other	4	3%	3%

16 Many teachers are tapping into "open educational resources" from the Internet to support classroom instruction. Which of these types of Internet-based open educational resources have you used in the past 12 months? (Select any that apply.)

Response	# of Responses	% of Responses	National %
A subject-specific website portal.	49	42%	50%
A test-bank with items to build my own assessments	28	24%	29%
A collection of streaming videos to support my lessons	40	34%	43%
Interactive simulations to support my lessons	16	14%	22%
Online experiments to use with my class	8	7%	12%
"Pre-packaged" course curriculum	11	9%	18%
Interchangeable modules to create my own course	1	1%	5%
Just-in-time online teaching support	2	2%	6%
Nuggets of teaching ideas and background information.	27	23%	31%
Video clips of teaching demonstrations in my content area	15	13%	21%

Blogs, message boards or discussion groups where teachers can share success stories, struggles and challenges	9	8%	13%
None of the above	16	14%	12%

17

What is the primary way that you interact with open educational resources to support instruction in your classroom?

Response	# of Responses	% of Responses	National %
I use online resources in my classroom just the way I find them without editing, modifying or customizing.	12	10%	24%
I customize the online resources I find with my own ideas, materials and resources before using them in my classroom.	52	44%	44%
I review online resources to get ideas to help me create new lesson plans and classroom activities.	56	47%	53%
I update my pre-existing lesson plan or classroom activity with resources that I found online.	42	36%	41%
I post online resources that I have developed and tested in my own classroom for other teachers to use.	5	4%	7%
I have trouble finding high quality online open educational resources to support instruction in my classroom.	5	4%	7%
I don't have the technology infrastructure to use online resources in my classroom.	2	2%	3%
I don't use online resources in my classroom.	5	4%	5%
None of the above	6	5%	5%
Other	1	1%	1%

18

Business and policy leaders believe that scientific knowledge is critical to improving our nation's economic competitiveness. To what extent do you agree that improving K-12 science education should be a top national education issue?

Response	# of Responses	% of Responses	National %
Strongly disagree	7	6%	10%
Disagree	7	6%	3%
Agree	45	38%	41%
Strongly agree	19	16%	29%
No opinion			
If you don't teach science skip to question 23	15	13%	7%

19

In your classroom, which instructional strategies do you use to teach students science? (Choose all that apply.)

Response	# of Responses	% of Responses	National %
Facilitate inquiry-based investigations	11	9%	25%
Lecture	14	12%	23%
Kit-based materials	8	7%	21%
Facilitate hands-on activities to demonstrate science concepts.	12	10%	31%
Conduct demonstration lessons	13	11%	26%
Explore scientific concepts using multimedia and interactive simulations.	8	7%	16%
Provide opportunities for students to conduct original research.	4	3%	12%
Use probeware to facilitate the collection, visualization, analysis and	4	3%	3%

presentation of scientific data.			
Help students realize science is relevant in their life.	10	8%	26%
Give students multiple opportunities to develop their scientific expertise.	7	6%	14%
Use virtual environments to develop students' scientific expertise.	6	5%	5%
Assign projects that develop students problem-solving, critical thinking skills.	13	11%	16%
Introduce students to science professionals	4	3%	5%
Other	5	4%	4%

20 Researchers recommend that schools should make greater use of 21st century tools to teach science. Which of these tools have the greatest potential for increasing student achievement in science?

Response	# of Responses	% of Responses	National %
Animations to help students visualize difficult concepts.	9	8%	25%
Digital media tools for presenting scientific findings.	7	6%	17%
Digital whiteboards to help facilitate student discussions of scientific findings.	4	3%	17%
Interactive simulations that allow students to practice scientific expertise.	11	9%	24%
Probeware that facilitates the collection, visualization, analysis and presentation of scientific data.	10	8%	10%
Projection systems to assist with demonstrations.	5	4%	17%
Standard lab tools and apparatus (e.g. microscopes, Bunsen burners)	9	8%	20%
Videoconferencing to connect with professionals.	2	2%	8%
Visualizing software to organize ideas.	3	3%	8%
Web 2.0 tools to facilitate student research & collaboration	2	2%	5%
Other	4	3%	2%

21 Thinking about your own classroom, what are the primary barriers to teaching inquiry-based science?

Response	# of Responses	% of Responses	National %
I am currently teaching outside of my scientific expertise.	1	1%	3%
Pressure to conform to a "prescribed" curriculum	10	8%	12%
District and/or school focus on state science assessments	4	3%	12%
Inadequate equipment and/or materials	4	3%	16%
Lack of time to conduct scientific investigations.	4	3%	23%
Lack of funding to purchase materials	0	0%	14%
Lab preparation is too time consuming	3	3%	10%
Inadequate space to conduct scientific investigations	1	1%	10%
Lack of well-developed science investigations tied to the standards	2	2%	6%
Lack of investigations aligned to my textbook.	3	3%	3%
Lack of student interest	1	1%	2%
I don't see the need to teach inquiry based science	1	1%	1%
Other	5	4%	5%

22

If you were considering integrating 21st century tools or strategies into your science instruction, what factors would you consider?

Response	# of Responses	% of Responses	National %
Available funding/cost	8	7%	27%
Brochures or catalogs	2	2%	5%
Conference presentations	9	8%	9%
Demonstrated improvements in student achievement	5	4%	15%
Ease of integration into my classroom	8	7%	24%
I don't have the opportunity to influence these decisions	2	2%	5%
Mandate by site or district administration	1	1%	3%
Recommendations from peers	5	4%	12%
Recommendations from teachers outside my district	5	4%	7%
Research or best-practices	3	3%	15%
Supporting curricular resources (e.g. lesson plans, website, teaching guides)	4	3%	14%
Vendor presentations or workshops	4	3%	5%
Website	0	0%	4%
Other	7	6%	2%

23

Do you think that your school is doing a good job of preparing today's students for the jobs of the 21st century?

Response	# of Responses	% of Responses	National %
Yes	47	40%	47%
No	14	12%	14%
Not Sure	26	22%	21%
No Opinion	1	1%	3%
I have not thought about this before.	2	2%	2%
I do not think this is the responsibility of K-12 education.	1	1%	0%

24

Imagine you are designing the ultimate school for 21st century learners. Which of these tools or strategies do you think holds the greatest potential for increasing student achievement and success?

Response	# of Responses	% of Responses	National %
1:1 laptops	60	51%	58%
Access to online databases for research	56	47%	47%
Career technical education classes	44	37%	38%
Digital equipment for creating multi-media projects	37	31%	42%
Games/Virtual Simulations	24	20%	26%
Interactive white boards in every classroom	36	31%	45%
Learning management systems	22	19%	19%
Mobile learning devices (PDAs, MP3 players, graphing calculators)	25	21%	27%
Online Classes	18	15%	23%
Online tools to streamline communications between teachers, parents, students	30	25%	29%
School portal	12	10%	17%
Student access to email and IM accounts from school	38	32%	21%
Student response systems	21	18%	21%
Unlimited student access to the internet	14	12%	11%
Web 2.0 tools such as blogs, social networking sites, wikis	10	8%	10%
Other	3	3%	3%

Open Ended: The business and higher education community has been very vocal about the

- 25** need for improvements in science, technology, engineering and math (STEM) education. **Now it is your turn. What is the one thing you would like to tell our national leaders about what should be done today to create a foundation for excellence in K-12 STEM education?**

Note: Text responses too numerous to display. Highlights and summaries will be included in the national report. Please contact speakup@tomorrow.org to request your open ended responses.

26 Gender

Response	# of Responses	% of Responses	National %
Female	65	55%	72%
Male	27	23%	16%

- 27** **At the end of this school year, how many years of teaching experience will you have? (Include both public and private school experience)**

Response	# of Responses	% of Responses	National %
1-3	24	20%	13%
4-10	44	37%	27%
11-15	7	6%	16%
16+	17	14%	32%

28 Highest level of educational attainment

Response	# of Responses	% of Responses	National %
Bachelor's degree	22	19%	22%
Teaching certificate - elementary/multiple subject	2	2%	13%
Teaching certificate - single subject	8	7%	6%
Masters degree in education	48	41%	36%
Masters degree other than education	10	8%	9%
Doctorate degree	0	0%	1%

29 Race or cultural identity

Response	# of Responses	% of Responses	National %
American Indian/Alaskan Native	0	0%	1%
Asian	2	2%	1%
Black/African-American	0	0%	4%
Caucasian/White (non-Hispanic)	85	72%	74%
Hispanic/Latino	2	2%	4%
Native Hawaiian/Other Pacific Islander	0	0%	0%
Other	1	1%	2%