

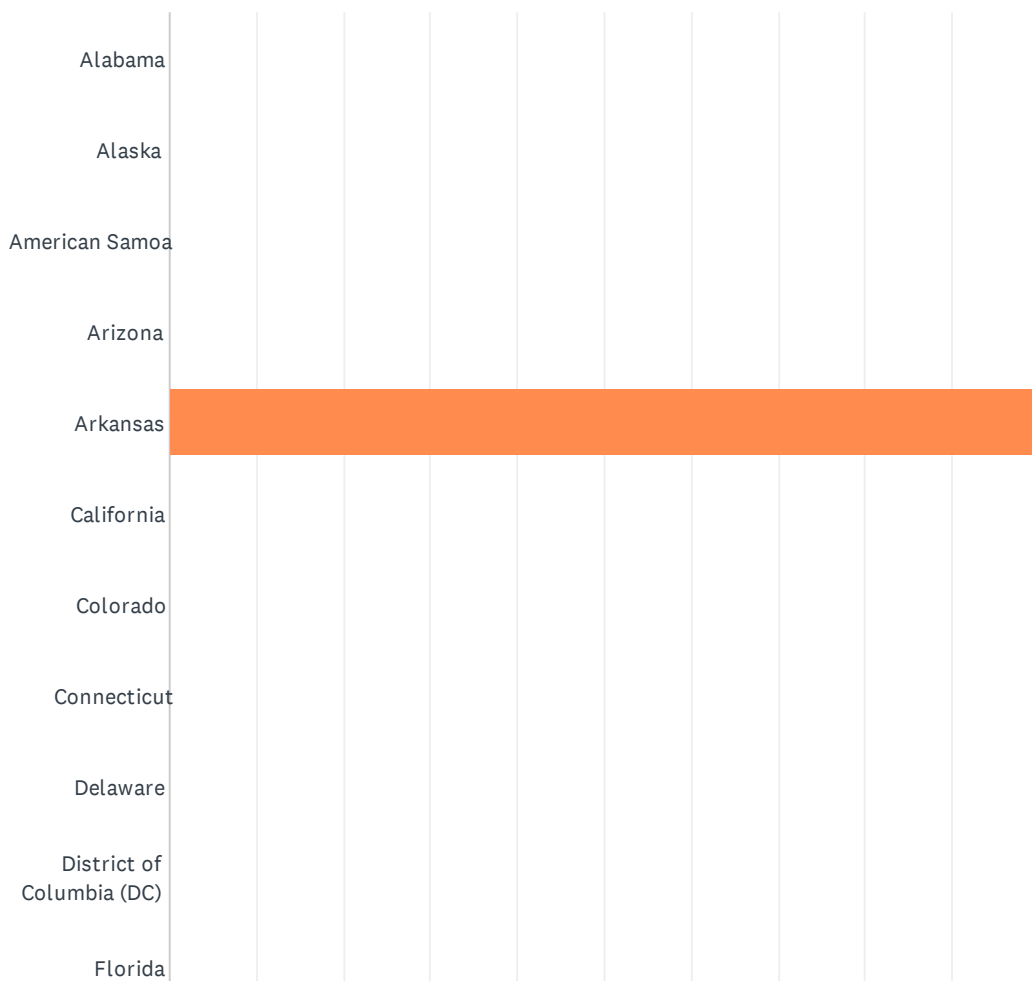
## Q1 In what city (or town) do you currently reside?

Answered: 9 Skipped: 0

#	RESPONSES	DATE
1	Jonesboro	12/1/2020 8:54 AM
2	Jonesboro	11/26/2020 10:36 PM
3	Conway	11/25/2020 5:23 PM
4	Hot Springs	11/24/2020 7:47 PM
5	Conway	11/24/2020 5:44 PM
6	Cabot	11/24/2020 1:07 PM
7	Heber Springs	11/24/2020 12:00 PM
8	Springdale	11/24/2020 11:21 AM
9	Strawberry	11/24/2020 11:09 AM

## Q2 In what state or U.S. territory do you live?

Answered: 9 Skipped: 0



# 2020 Computer Science and Computing Draft Standards Community Feedback Survey

Georgia										
Guam										
Hawaii										
Idaho										
Illinois										
Indiana										
Iowa										
Kansas										
Kentucky										
Louisiana										
Maine										
Maryland										
Massachusetts										
Michigan										
Minnesota										
Mississippi										
Missouri										
Montana										
Nebraska										
Nevada										

# 2020 Computer Science and Computing Draft Standards Community Feedback Survey

New Hampshire

New Jersey

New Mexico

New York

North Carolina

North Dakota

Northern  
Marianas...

Ohio

Oklahoma

Oregon

Pennsylvania

Puerto Rico

Rhode Island

South Carolina

South Dakota

Tennessee

Texas

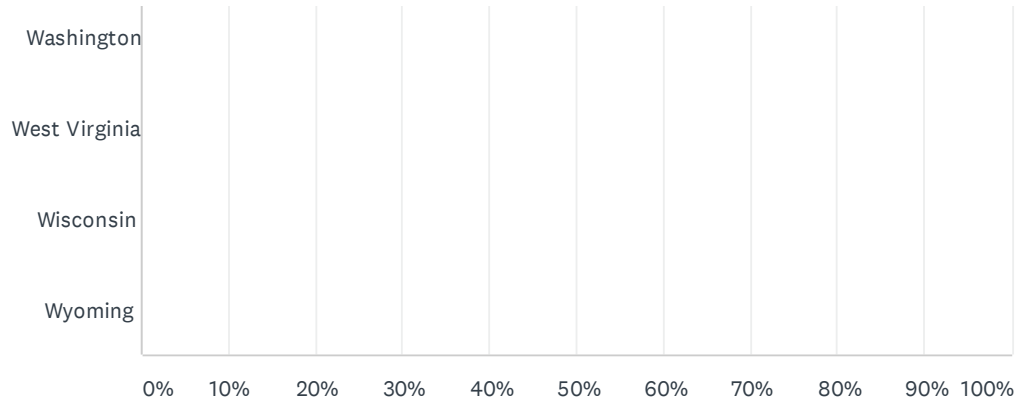
Utah

Vermont

Virginia

Virgin Islands

# 2020 Computer Science and Computing Draft Standards Community Feedback Survey



2020 Computer Science and Computing Draft Standards Community Feedback Survey

ANSWER CHOICES	RESPONSES	
Alabama	0.00%	0
Alaska	0.00%	0
American Samoa	0.00%	0
Arizona	0.00%	0
Arkansas	100.00%	9
California	0.00%	0
Colorado	0.00%	0
Connecticut	0.00%	0
Delaware	0.00%	0
District of Columbia (DC)	0.00%	0
Florida	0.00%	0
Georgia	0.00%	0
Guam	0.00%	0
Hawaii	0.00%	0
Idaho	0.00%	0
Illinois	0.00%	0
Indiana	0.00%	0
Iowa	0.00%	0
Kansas	0.00%	0
Kentucky	0.00%	0
Louisiana	0.00%	0
Maine	0.00%	0
Maryland	0.00%	0
Massachusetts	0.00%	0
Michigan	0.00%	0
Minnesota	0.00%	0
Mississippi	0.00%	0
Missouri	0.00%	0
Montana	0.00%	0
Nebraska	0.00%	0
Nevada	0.00%	0
New Hampshire	0.00%	0

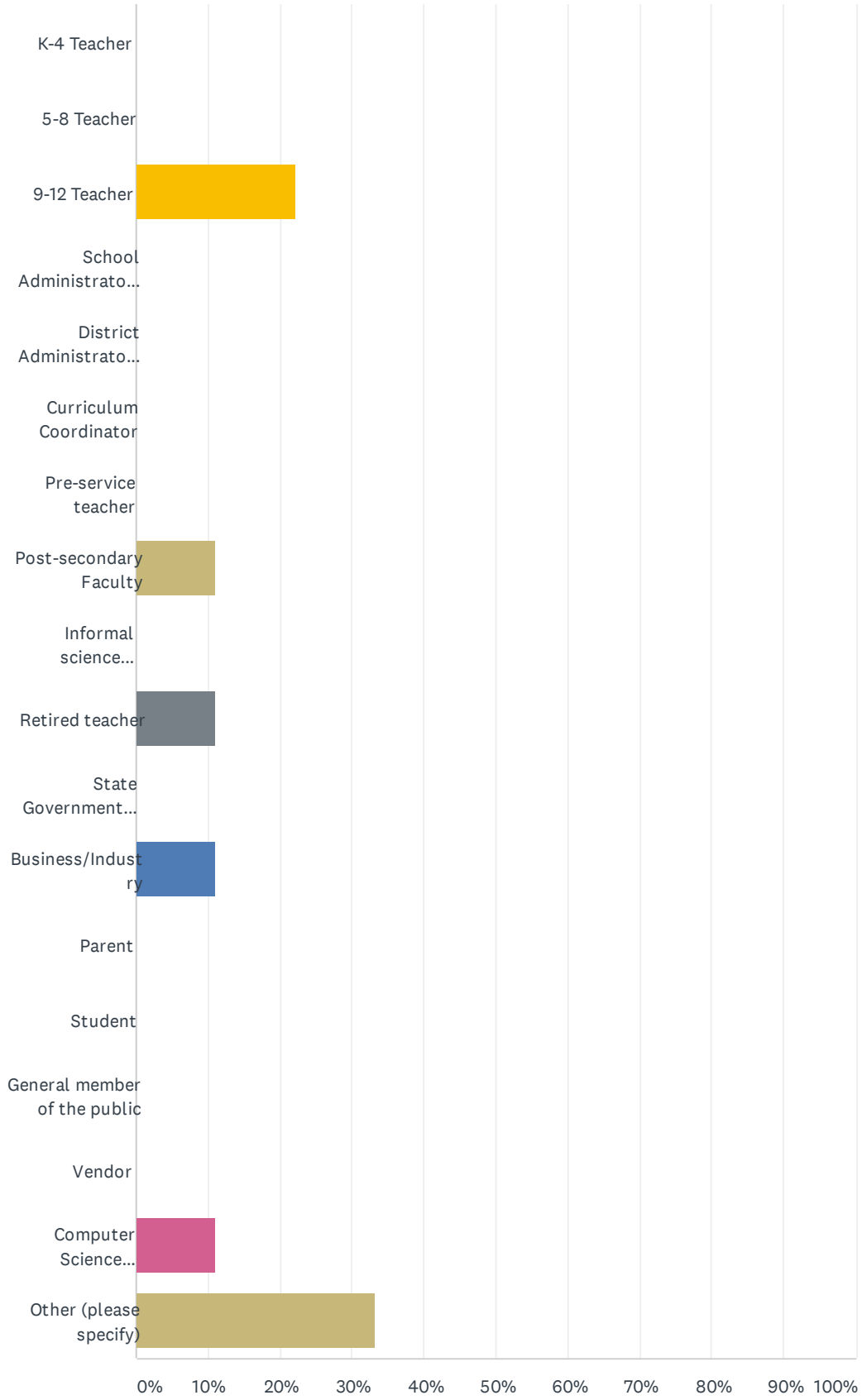
2020 Computer Science and Computing Draft Standards Community Feedback Survey

New Jersey	0.00%	0
New Mexico	0.00%	0
New York	0.00%	0
North Carolina	0.00%	0
North Dakota	0.00%	0
Northern Marianas Islands	0.00%	0
Ohio	0.00%	0
Oklahoma	0.00%	0
Oregon	0.00%	0
Pennsylvania	0.00%	0
Puerto Rico	0.00%	0
Rhode Island	0.00%	0
South Carolina	0.00%	0
South Dakota	0.00%	0
Tennessee	0.00%	0
Texas	0.00%	0
Utah	0.00%	0
Vermont	0.00%	0
Virginia	0.00%	0
Virgin Islands	0.00%	0
Washington	0.00%	0
West Virginia	0.00%	0
Wisconsin	0.00%	0
Wyoming	0.00%	0
<b>TOTAL</b>		<b>9</b>

**Q3 What is your primary role in the educational system?(Please select the one role that best describes you.)**

Answered: 9 Skipped: 0

# 2020 Computer Science and Computing Draft Standards Community Feedback Survey



2020 Computer Science and Computing Draft Standards Community Feedback Survey

ANSWER CHOICES	RESPONSES	
K-4 Teacher	0.00%	0
5-8 Teacher	0.00%	0
9-12 Teacher	22.22%	2
School Administrator/Leader	0.00%	0
District Administrator/Leader	0.00%	0
Curriculum Coordinator	0.00%	0
Pre-service teacher	0.00%	0
Post-secondary Faculty	11.11%	1
Informal science educator	0.00%	0
Retired teacher	11.11%	1
State Government Education Policy Leader	0.00%	0
Business/Industry	11.11%	1
Parent	0.00%	0
Student	0.00%	0
General member of the public	0.00%	0
Vendor	0.00%	0
Computer Science Community Advocate	11.11%	1
Other (please specify)	33.33%	3
<b>TOTAL</b>		<b>9</b>

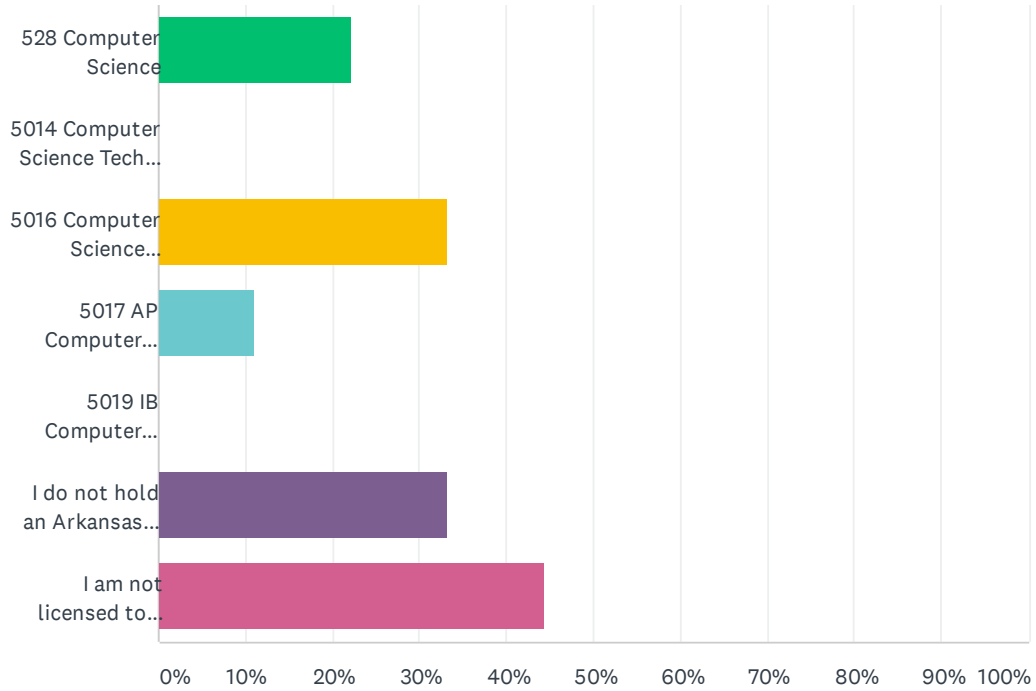
#	OTHER (PLEASE SPECIFY)	DATE
1	Technology Coach	12/1/2020 8:54 AM
2	Paraprofessional	11/24/2020 1:07 PM
3	CTE Coordinator	11/24/2020 12:00 PM

**Q4 Do you currently hold any of the following endorsements on your Arkansas Educator's License?**

Answered: 9 Skipped: 0



2020 Computer Science and Computing Draft Standards Community Feedback Survey



ANSWER CHOICES	RESPONSES	
528 Computer Science	22.22%	2
5014 Computer Science Tech Permit	0.00%	0
5016 Computer Science Approval	33.33%	3
5017 AP Computer Science Principles Approval	11.11%	1
5019 IB Computer Science Approval	0.00%	0
I do not hold an Arkansas Computer Science Endorsement or Approval	33.33%	3
I am not licensed to teach in Arkansas	44.44%	4
Total Respondents: 9		

## Q5 CSforAR Computer Science and Computing Practices

Answered: 5 Skipped: 4

## 2020 Computer Science and Computing Draft Standards Community Feedback Survey

#	RESPONSES	DATE
1	No comments/concerns	12/1/2020 8:54 AM
2	On Understanding: Students "decompose complex problems into simpler modules and patterns". This is an apples and oranges statement. complex problems are decomposed into simpler problems. Modules and patterns fall in the realm of design. Better: Students "decompose problems into into simpler problems an produce modular designs that use relevant software patterns." Research: "They embrace the practice of gaining knowledge to ..." Better: They research approaches to ...	11/25/2020 5:23 PM
3	I had the pleasure to serve on Computer Science and Computing Practices Committee and I am very supportive of the final document. <a href="https://www.acm.org/#">https://www.acm.org/#</a>	11/24/2020 5:44 PM
4	These basic standards seem appropriate for the broad topic of computer science.	11/24/2020 1:07 PM
5	I agree with what was developed and is proposed here.	11/24/2020 11:21 AM

### Q6 CSforAR K-8 Standards for K-4

Answered: 4 Skipped: 5

#	RESPONSES	DATE
1	No comments/concerns	12/1/2020 8:54 AM
2	I am excited about the basic foundation of knowledge and skills being incorporated into the K-4 grade level curriculum. I am also encouraged by the computer and data concepts that the students are learning this early in their educational experience.	11/24/2020 5:44 PM
3	These standards are great building blocks for what they will learn in upper level CS.	11/24/2020 1:07 PM
4	I did not review this.	11/24/2020 11:21 AM

### Q7 CSforAR K-8 Standards for 5-8

Answered: 4 Skipped: 5

#	RESPONSES	DATE
1	No comments/concerns	12/1/2020 8:54 AM
2	I am impressed by the advancing technical foundation knowledge that is being taught at the 5th-8th grades. It is such an important time for learning mathematical and scientific concepts. They are also exploring career concepts and connections to the world of work. It will be interesting to see how technical career education will compliment the new standards. <a href="https://dcte.ade.arkansas.gov/">https://dcte.ade.arkansas.gov/</a>	11/24/2020 5:44 PM
3	I really like how laid out the standards are for these grade levels. Its less confusing.	11/24/2020 1:07 PM
4	I did not review this.	11/24/2020 11:21 AM

### Q8 CSforAR Coding Block for Grades 7 and 8

Answered: 3 Skipped: 6

#	RESPONSES	DATE
1	No comments/concerns	12/1/2020 8:54 AM
2	It is exciting to see students in the 7th and 8th grades to begin to understand the life cycle of programming and gain a basic understanding of algorithms, testing and data analysis. I think gaining an understanding of their personal digital footprint and cybersecurity concepts and problem solving will help them to prepare for more advanced concepts in the upper level courses.	11/24/2020 5:44 PM
3	I did not review this.	11/24/2020 11:21 AM

## Q9 CSforAR High School Computer Engineering

Answered: 3 Skipped: 6

#	RESPONSES	DATE
1	No comments/concerns	12/1/2020 8:54 AM
2	I appreciate the time that the educational and industry committee members spent to develop this course. I think the course will provide a good introduction to computer engineering concepts, technical skill development and help the students explore additional educational and career opportunities beyond high school.	11/24/2020 5:44 PM
3	I agree with what was developed and is proposed here. I was also involved in its development.	11/24/2020 11:21 AM

## Q10 CSforAR High School Cybersecurity

Answered: 3 Skipped: 6

#	RESPONSES	DATE
1	No comments/concerns	12/1/2020 8:54 AM
2	I appreciate the time that the educational and industry committee members spent to develop this course. I think the course will provide a good introduction to cybersecurity concepts, technical skill development and help the students explore additional educational and career opportunities beyond high school. <a href="https://cybersecurityguide.org/states/arkansas/">https://cybersecurityguide.org/states/arkansas/</a>	11/24/2020 5:44 PM
3	I agree with what was developed and is proposed here. I was also involved in its development.	11/24/2020 11:21 AM

## Q11 CSforAR High School Data Science

Answered: 3 Skipped: 6

#	RESPONSES	DATE
1	No comments/concerns	12/1/2020 8:54 AM
2	I appreciate the time that the educational and industry committee members spent to develop this course. I think the course will provide a good introduction to data science concepts, technical skill development and help the students explore additional educational and career opportunities beyond high school. <a href="https://www.dataversity.net/best-academic-programs-usa-data-science/">https://www.dataversity.net/best-academic-programs-usa-data-science/</a> <a href="https://www.kaggle.com/">https://www.kaggle.com/</a> <a href="https://www.acds.co/about">https://www.acds.co/about</a>	11/24/2020 5:44 PM
3	I agree with what was developed and is proposed here. I led the team that developed this.	11/24/2020 11:21 AM

## Q12 CSforAR High School Game Development and Design

Answered: 3 Skipped: 6

#	RESPONSES	DATE
1	No comments/concerns	12/1/2020 8:54 AM
2	I appreciate the time that the educational and industry committee members spent to develop this course. I think the course will provide a good introduction to game development and design concepts, technical skill development and help the students explore additional educational and career opportunities beyond high school. <a href="https://www.backstory49.com/david-kersey-inspiration-through-education/index.html">https://www.backstory49.com/david-kersey-inspiration-through-education/index.html</a> <a href="https://few.io/">https://few.io/</a>	11/24/2020 5:44 PM
3	I did not review this.	11/24/2020 11:21 AM

## Q13 CSforAR High School Mobile Application Development

Answered: 5 Skipped: 4

#	RESPONSES	DATE
1	No comments/concerns	12/1/2020 8:54 AM
2	I like what I see, but I would also like to see some inclusion of website design as well. Also, a bit more specific focus on the end-user experience.	11/24/2020 7:47 PM
3	I had the pleasure to serve on the High School Mobile Application Development Committee and I am very supportive of the final document. I think the course will provide a good introduction to mobile application development concepts, technical skill development and help the students explore additional educational and career opportunities beyond high school. <a href="https://www.appsforgood.org/">https://www.appsforgood.org/</a> <a href="https://girlswhocode.com/programs">https://girlswhocode.com/programs</a> <a href="https://www.womenintechnology.org/about-wit">https://www.womenintechnology.org/about-wit</a>	11/24/2020 5:44 PM
4	I did not review this.	11/24/2020 11:21 AM
5	This is what we currently offer.	11/24/2020 11:09 AM

## Q14 CSforAR High School Networking

Answered: 2 Skipped: 7

#	RESPONSES	DATE
1	No comments/concerns	12/1/2020 8:54 AM
2	I agree with what was developed and is proposed here.	11/24/2020 11:21 AM

## Q15 CSforAR High School Programming

Answered: 3 Skipped: 6

#	RESPONSES	DATE
1	No comments/concerns	12/1/2020 8:54 AM
2	"Through these standards students will ..." The standards don't in an of themselves promote student learning. Better (and throughout the paragraph): Students who achieve these standards will ..." "allow for" --> "define" "the classroom teacher ... their" --> "the classroom teachers ... their" "analyze and utilize" ... "Analysis" seems too high. Consider replacing the use of these phrases with "comprehend and use". (If "use" fits, it is generally preferred over "utilize"). Even better: Since the ability to use a particular concept implies comprehension of the concept, I believe all these references throughout the document are better replaces with "use" or "employ". "utilization and implementation of social media" --- what is meant by "implementation of social media" ? Are students expected to know how to the billion lines of FaceBook are structured implemented)? Or are we talking about how to set up a FaceBook page? Some clarification (NOTE:) would be helpful. "the use of the term 'research' should not infer" --> "The use of the term 'research' does not imply" OR "One should not infer ..."	11/25/2020 5:23 PM
3	I agree with what was developed and is proposed here	11/24/2020 11:21 AM

## Q16 CSforAR High School Robotics

Answered: 3 Skipped: 6

#	RESPONSES	DATE
1	No comments/concerns	12/1/2020 8:54 AM
2	So much of robotics is about engineering and adapting to what actually happens when we run an algorithm vs what is supposed to happen. I am glad that year two and three shift away from pure programming and move towards other parts of robotics including 3d design and 3d printing. Excellent eveloution.	11/24/2020 7:47 PM
3	I did not review this.	11/24/2020 11:21 AM

## Q17 CSforAR High School Independent Study

Answered: 2 Skipped: 7

#	RESPONSES	DATE
1	No comments/concerns	12/1/2020 8:54 AM
2	I did not review this.	11/24/2020 11:21 AM

## Q18 CSforAR High School Internship

Answered: 3 Skipped: 6

#	RESPONSES	DATE
1	No comments/concerns	12/1/2020 8:54 AM
2	I recommend that high school counselors connect with college and university career services office to expand their employer network and the use of experiential learning contracts. <a href="http://www.arkace.org/">http://www.arkace.org/</a> <a href="https://www.aee.org/">https://www.aee.org/</a> <a href="https://www.ncda.org/aws/NCDA/pt/sp/occupational_trends">https://www.ncda.org/aws/NCDA/pt/sp/occupational_trends</a>	11/24/2020 5:44 PM
3	I agree with what was developed and is proposed here	11/24/2020 11:21 AM

## Q19 Do you have any other comments, questions, or concerns?

Answered: 8 Skipped: 1

#	RESPONSES	DATE
1	No comments, questions, or concerns	12/1/2020 8:54 AM
2	Very nicely done. Would have been good to have had a side-by-side comparison with the previous standards.	11/25/2020 5:23 PM
3	I am the only certified CS teacher at my school. I want to offer all of these options to all my students. However, I do not have a formal background in CS. Mostly I have learned by doing since I took the Praxis Bootcamps the state and ASMSA offered. How do I come up with all these curriculums? Will the state be offering some PD and perhaps "model" curriculum suggestions? Especially for years two and three of the pathways? Is it possible to create one "super course" for year one that is projects based and has eight different units so that each one could focus on an individual pathway? I would love to collaborate on something like that.	11/24/2020 7:47 PM
4	Thank you for the opportunity to participate in this process.	11/24/2020 5:44 PM
5	Will teacher of record be required to have some kind of CS certification for grades K-8?	11/24/2020 1:07 PM
6	These look great.	11/24/2020 12:00 PM
7	I believe this was very well done and the teams were appropriate staffed and worked well together -- and were experts in what they do.	11/24/2020 11:21 AM
8	I really wish the frameworks were individualized for each course. I think that their needs to be some differentiation on what is expected to be met when teaching each course. I also wish there were suggested topics/methods for some of the standards to give the instructor more guidance on how they can implement the standard in their class. We are looking into which option is the most viable and will be the most successful at our small school, so we need more specifics about what each course entails/requires.	11/24/2020 11:09 AM

## Q20 OPTIONAL: If you would like to receive a response to your survey responses, at what email address would you like to be contacted?

Answered: 5 Skipped: 4

## 2020 Computer Science and Computing Draft Standards Community Feedback Survey

#	RESPONSES	DATE
1	courtney.speer@nettletonschoools.net	12/1/2020 8:54 AM
2	lmorell@atu.edu	11/25/2020 5:23 PM
3	mathewsv@hssd.net	11/24/2020 7:47 PM
4	shola.mcfaddenkittrell@cps.k12.ar.us	11/24/2020 1:07 PM
5	schubert@uark.edu	11/24/2020 11:21 AM