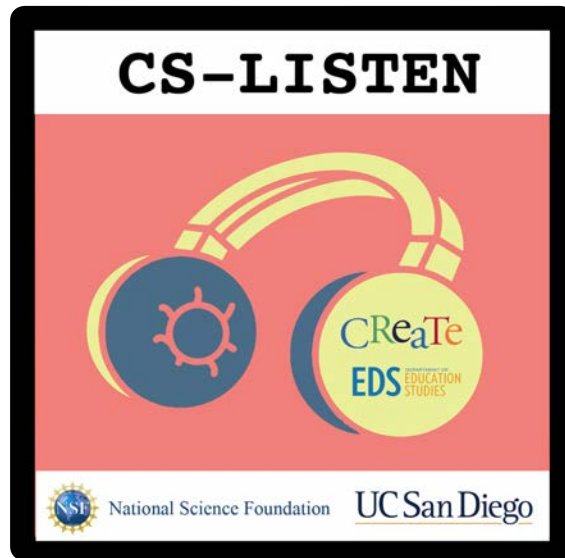


# Hoover High School



HOO-RYDE!



Evelyn Arce, Theresa Nguyen, Hao Trinh, Emilse Angel

# Hoover Student Co-Researchers

## Question(s):

How will students' interest/opinion in CS differ if it was open to all and applied real world and interactive approaches to learning?



# Hoover High School



*Student demographics:*  
**100% Federal free & reduced lunch**

- 75% = Latino/Hispanic
- 12% = Asian
- 9% = African American
- 1% = White
- 22.3% = English Learners
- 7.5% = Homeless Youth

**Hoover High School** is situated in the most ethnically diverse neighborhood of San Diego County, City Heights.

As a result, students are exposed to a rich variety of cultures and benefit from learning within a diverse community.

Many of our students and/or their family members are newcomers to the United States as well as first generation college students.



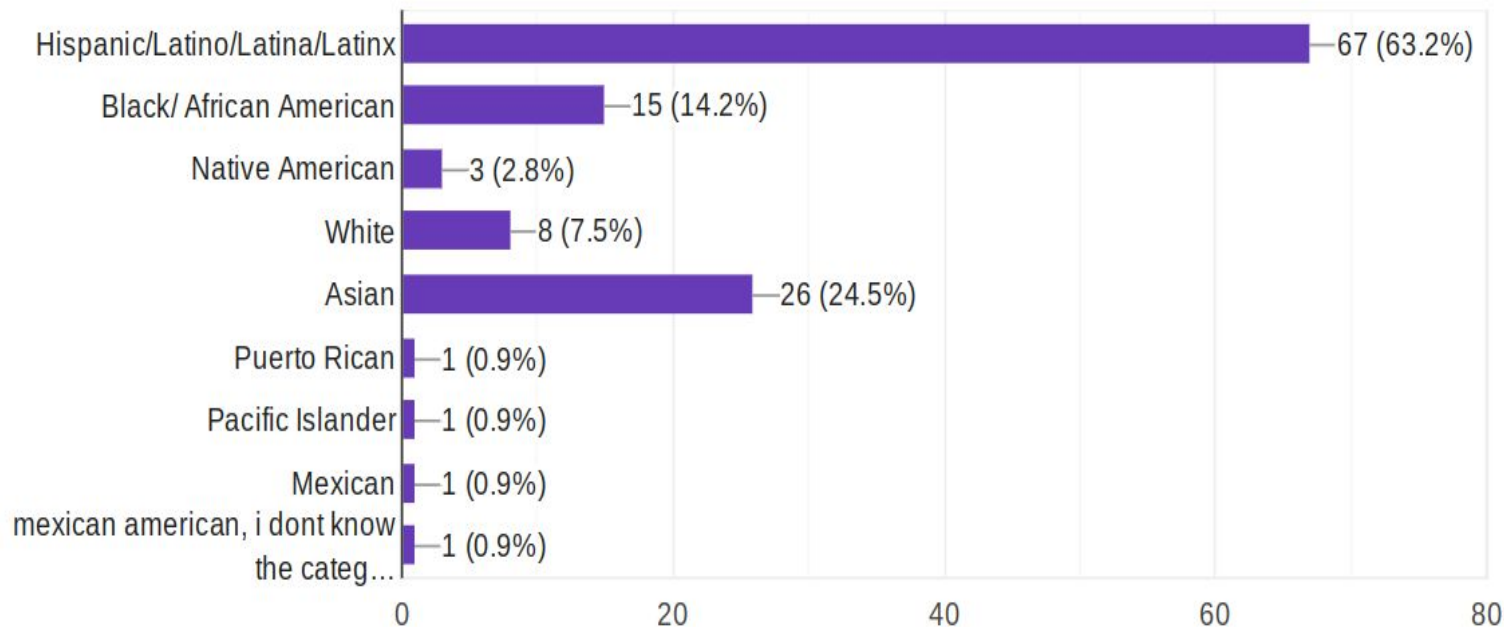
# *The Faces at Hoover*





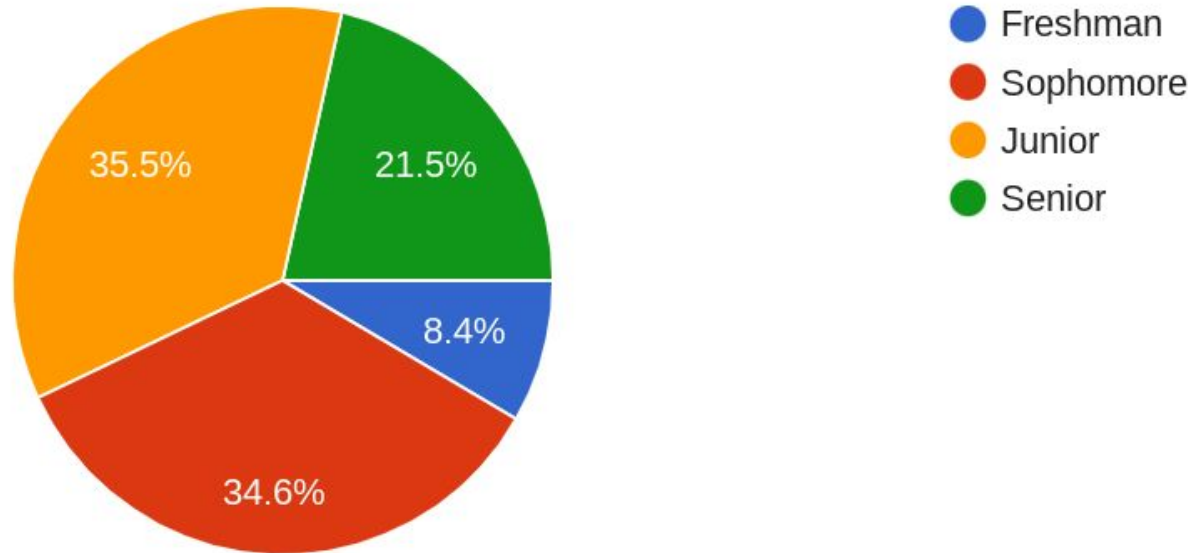
# What is your ethnicity?

106 responses



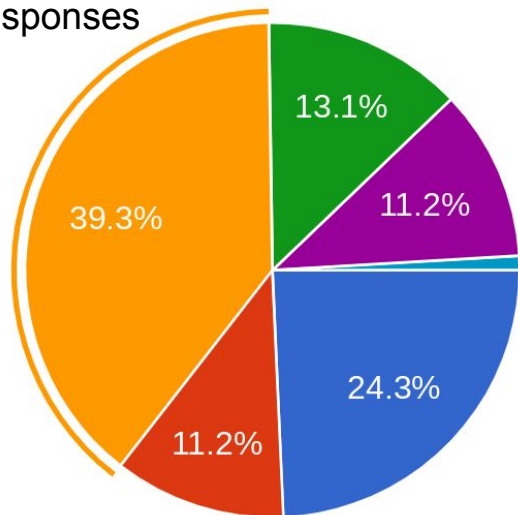
# What grade are you in?

(106 responses)



# What academy are you in?:

106 responses



- AHHC (Academy of Health and Healthier Communities)
- ALMA (Academy of Language, Music, and Art)
- AOIT (Academy of Information Technology)
- SABE (Sustainable Academy of Building and Engineering)
- SJA (Social Justice Academy)
- I don't know



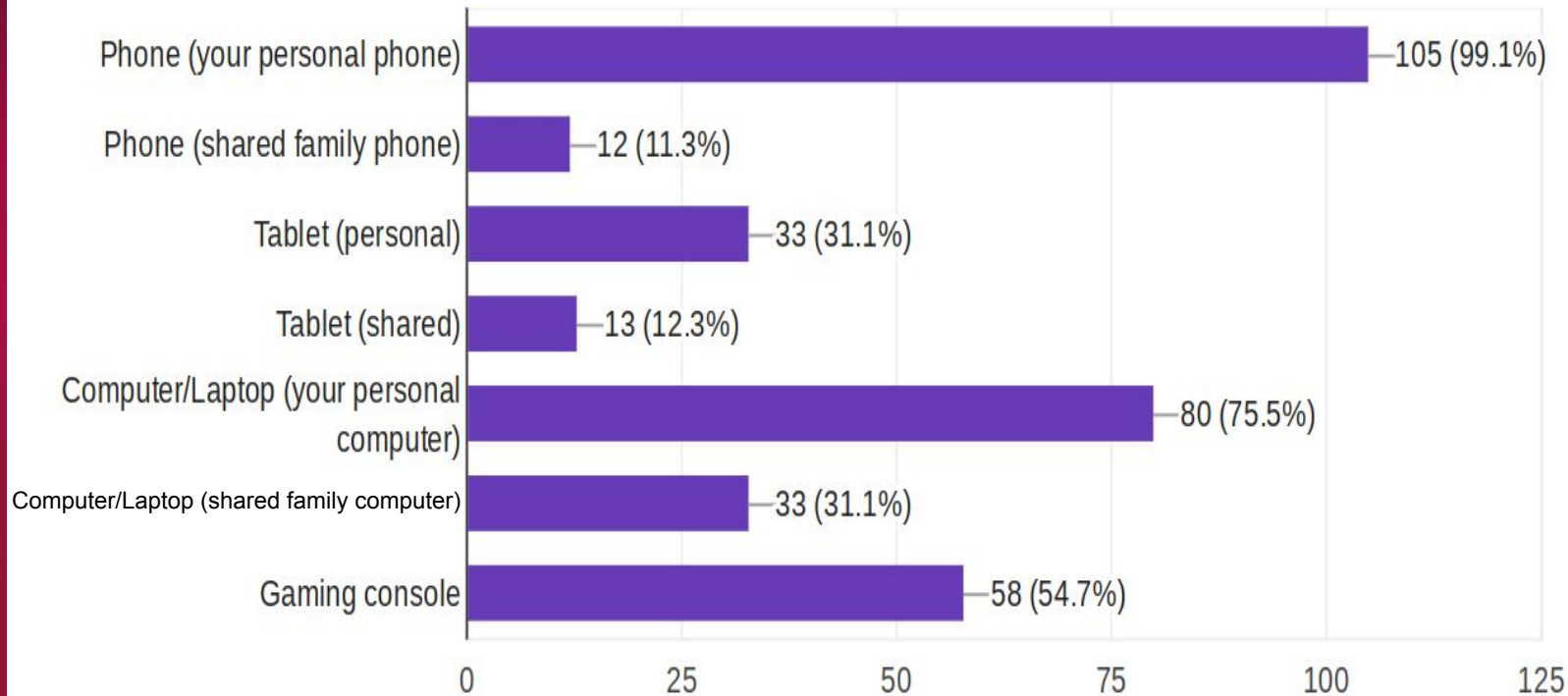
## What does your access to technology look like?



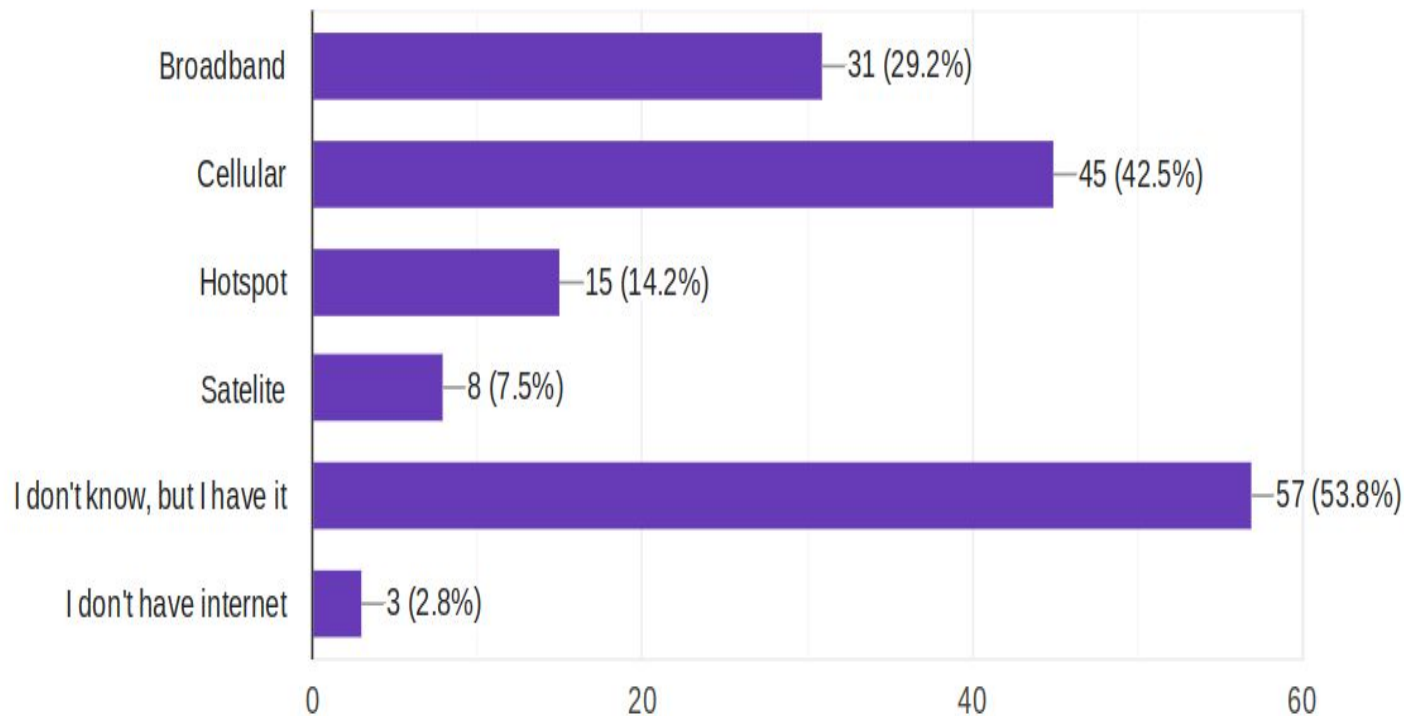
Tony



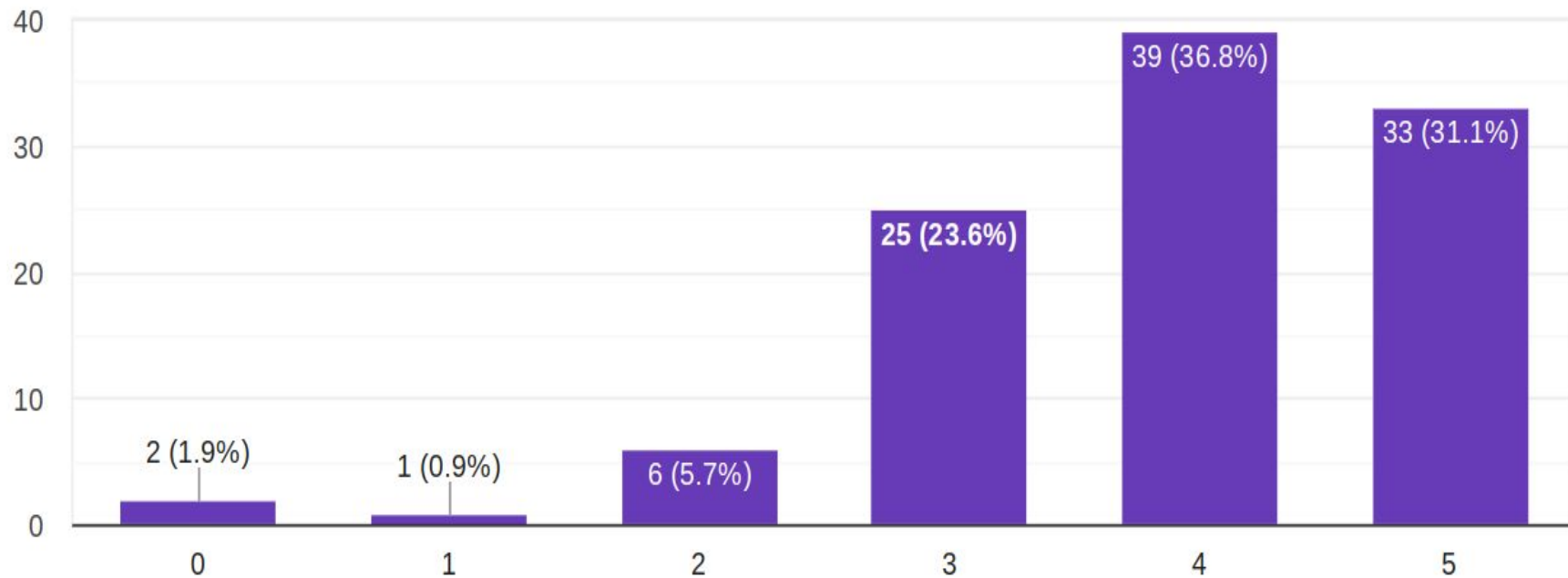
What kind of technology do you have at home? (Check all that apply)



What kind of internet do you have at home? (Check all that apply)



How reliable is your Internet at home? (Scale 0 to 5 -- not at all to very)



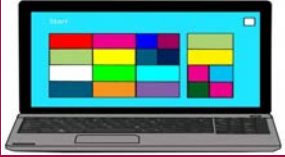





# Hoover Students' Image of CS Student



What do students who have and have not taken CS before  
*think about CS students?*

Scale 0 to 5 (not at all to very)

Have you taken CS before?	Nerdy	Hard-working	Smart
			
Yes	1.58	3.61	3.05
No/Not Sure	2.39	3.95	3.65
Difference	0.81	0.34	0.60

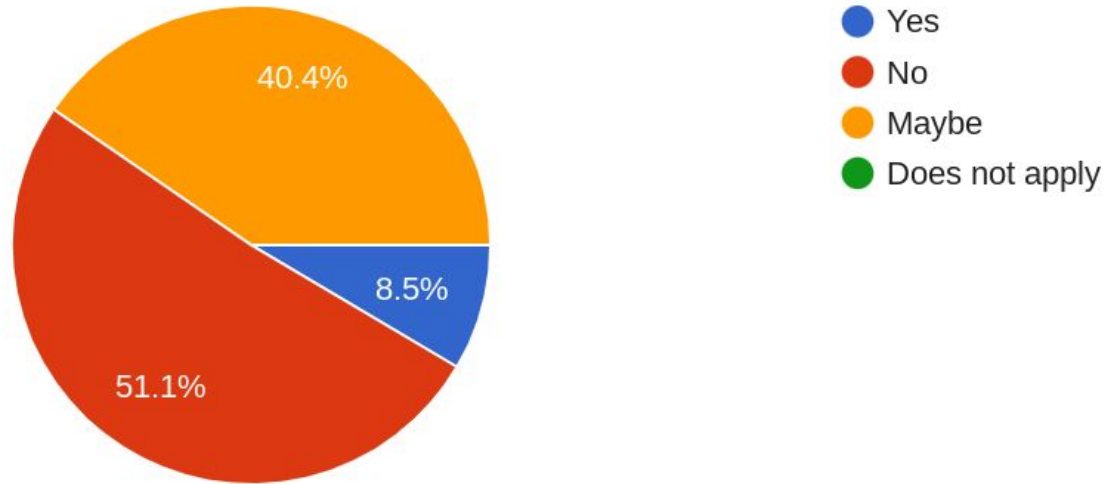
# What do people think about Computer Science?

*What is Computer Science?*



if haven't taken the computer science course, are you interested in taking it?

47 responses



## I took CS, and this is what I thought about it:

I loved that we were able to actually learn about real life applications for information technology, unlike other "classes"..technology will always be here, and we will always have a need for it.(I57)

I like that we get to see what's happening to our community in a digital way and get to know what's around us(I82)

★  
I like the modern/technological environment and how the subject is different than the general education for a high school course. (I29)

...I created my own web page once and used coding to make it. I've also made my own game. All the exploring and different assignments were really cool. (I85)

I enjoy learn how the technology has been advance during the years with having their own code program. This was have to look in deep of cyber attack we have hear. (I33)

★  
**I got to design something.**  
(I70)

I like that it helps you enhance your problem solving skills by having you break the problem down into smaller steps that will eventually come together to solve the larger problem. (I32)

★  
Learning by myself and figuring out steps on my own and learned to manage time (I66)

★  
**I liked that we made websites.(I54)**

One thing I liked about the computer science classes I've taken is a project based teaching they usually have for us. For the most part instead of having us just read about programs and tools we use in computer

I enjoyed that the material being taught was useful and applicable into our everyday lives.(I65)

I've always liked projects where we are given the freedom to create just about any program we want (like on scratch for example). These kinds of projects not only allow me to express myself creatively, but I learn along the way.

The thing that I like the most about it is learning things that might be useful in the future. (I38)

[What] I liked about it was the big project at the end where we had to build an app for the 8th graders to use during their tour of hoover. I thought that was a good experience to try that and actually make an app. (I55)

I haven't taken CS, but this is what I think it is:

It has something to do with how the computer works and new things we can learn by using it. (L11)

**Programming and Coding**

I think the Computer Science course is about the making and development of computers and how they work. (L33)

Learning about the functions of computers besides just the basic knowledge we may know. (L13)

**Basic coding like JAVA and knowledge on how to avoid viruses (L21)**

**Basic coding like JAVA and knowledge on how to avoid viruses (L23)**

**Technology and how it could harm and affect the environment . (L20)**

I think it would include programs for those who are into technology and want to do something such as coding (L31)

I believe the course would be about ways to connect world problems to technology in order to try to find a solution. (L29)

Learning how to function a computer and been able to know how to manage and fix a computer. (L40)

The foundation/basics of coding. Learning different languages and how to use computer interfaces. What goes behind our online servers, etc. Maybe a bit of cyber security, learning about firewalls and safety. (L47)

How algorithms work and other computer stuff. I'm not really sure to be honest. If I were given more information about it through someone that has had experience in it and can experience it clearly then I'd probably consider it.

# Recommendation #1 - Open the Course To More

- Computer Science has always been restricted to AOIT only,
- By opening to all, there could be a better exposure and a rise in students taking Computer Science.
- More people can take the class.



# Recommendation #2 - Free Trial

Provide “Free Trial” via  
code.org



Focus on Freshmen



Theresa

Help available in Spanish



Thank You For Your Time!