VAPING, NICOTINE, AND CANNABIS: A BRIEFING FOR SCHOOLS



CDE TUPE

We gratefully acknowledge the support of the California Department of Education Tobacco Use Prevention Education program for this project. The contents do not necessarily reflect the position or policy of the CDE.

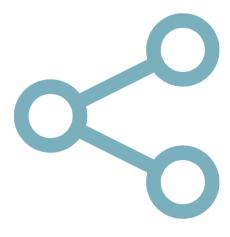




For higher quality audio, dial the number from your webinar invitation link



The webinar is being recorded



Supporting materials will be shared



Putting Health Care in Schools

The California School-Based Health
Alliance is the statewide
non-profit organization dedicated to
improving the health & academic
success of children & youth by
advancing health services in schools.

Learn more:

schoolhealthcenters.org





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Stephan Lambert
Prevention Coordinator, Orange
County Department of Education



Tracy NguyenTraining Manager, California
School-Based Health Alliance



Vaping, Nicotine, and Cannabis

A Briefing for Schools

Orange County Department of Education Educational Services Division



Learning Objectives

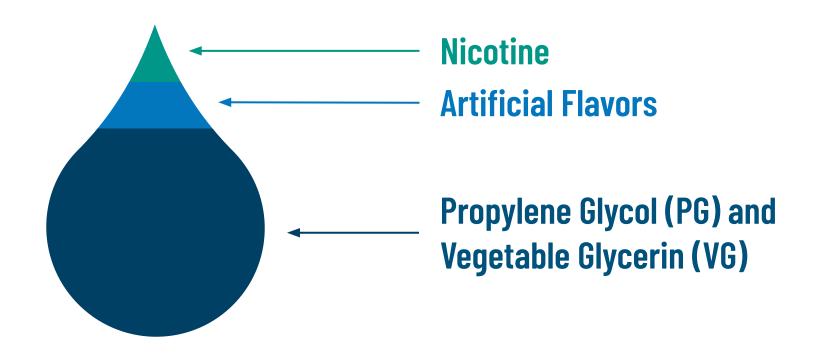
- Identify current vaping, nicotine, and cannabis products
- Explain key facts and health risks to students and families
- Evaluate resources to support prevention, intervention, and cessation

Nicotine Salt Vaping

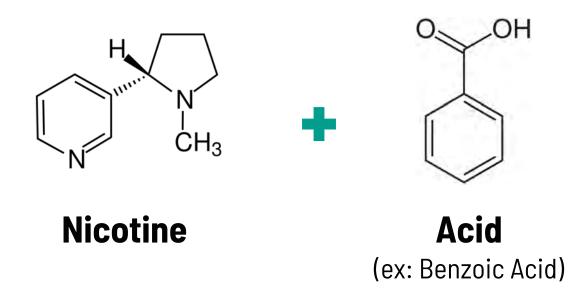
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What is E-Liquid?



What is Nicotine Salt?



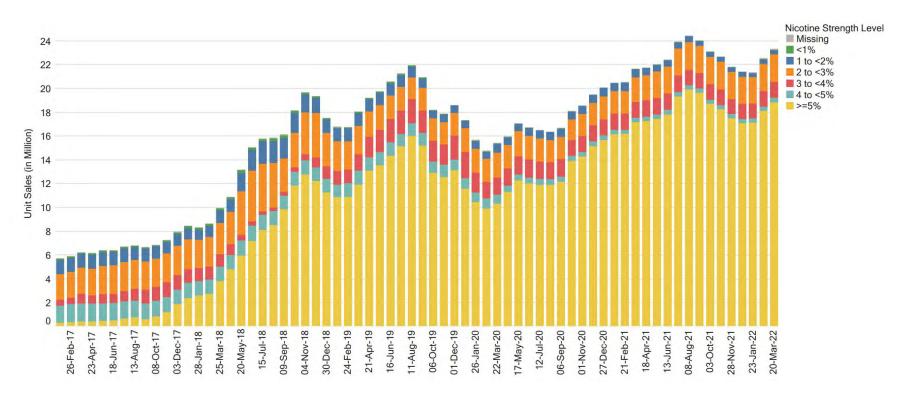
Why add an acid?

Nicotine is basic. Adding acid can reduce the pH to the level of saliva, making it **less irritating** despite a high level of nicotine.

Nicotine Salt Enables High Nicotine Levels



Total e-cigarette unit sales by nicotine strength, United States, 2017-2022



The Evolution of Nicotine Salt Vapes



Pod Vapes

Ex: JUUL

Refillable

Ex: Suorin Drop

"Disposable"

Ex: Puff Bar

Today's "Disposable" Nicotine Salt Vapes













How much nicotine do you think this ELFBAR contains?



Cigarettes typically deliver **1 mg** of nicotine each.

This ELFBAR contains **650 mg** of nicotine and can deliver around **300**.

Key Takeaways: Nicotine Salt Vaping

- E-cigarettes or vapes heat up a liquid to release an aerosol that carries nicotine into the lungs.
- Today's vapes use nicotine salt to deliver high levels of nicotine with deceptively little harshness.
- Most common vapes are "disposable" and hold large amounts of nicotine liquid.

Nicotine Pouches (ZYN)



Smokeless Tobacco Products



Snuff/Chew/Dip
Tobacco Leaf

Snus Tobacco Leaf Nicotine Powder

Nicotine Powder

Nicotine Powder

Flavorings and Sweeteners



Fillers and Preservatives

pH Adjusters

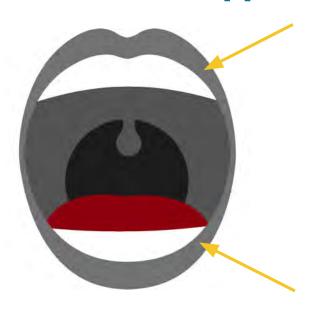
"Zyn"

"Pillow"

"Cushion"



"Upper Deck"



"Lower Deck"















ROGUE

















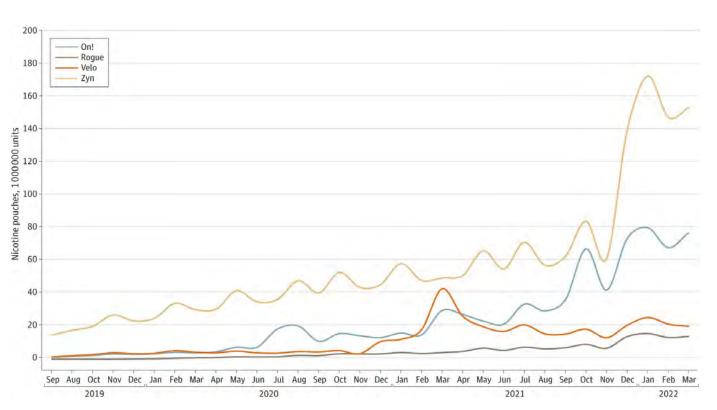




ROGUE



Nicotine Pouch Unit Sales in the US by Brand from 2019 to 2022





 Live TV Markets V

Economics

Industries

Tech

Politics Businessweek

Opinion

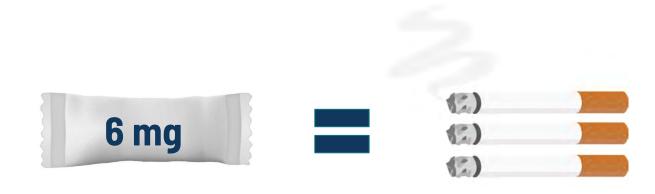
More V

Nicotine's New Wave: Zyn Shortage Zyn Imitators Rush In Pros & Cons Sweden and Snus End of Menthol Cigs?

Markets

Philip Morris Lifts Annual Profit View on Zyn Pouch Strength

- Zyn pouch sales to range as high as 580 million cans in 2024
- Cigarette alternatives account for 38% of quarterly sales



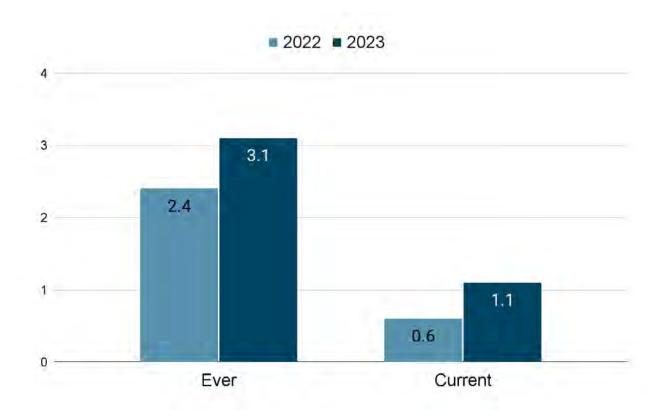
Studies have found using one 6 mg nicotine pouch for an hour delivers about as much nicotine as up to three cigarettes, though more gradually.

Nicotine pouches can **irritate the gums** in ways similar to
other tobacco products.

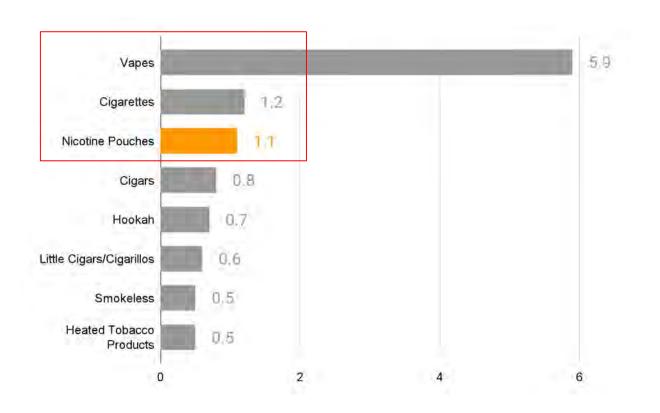
Whether they will cause gum disease or other oral health problems is unclear.



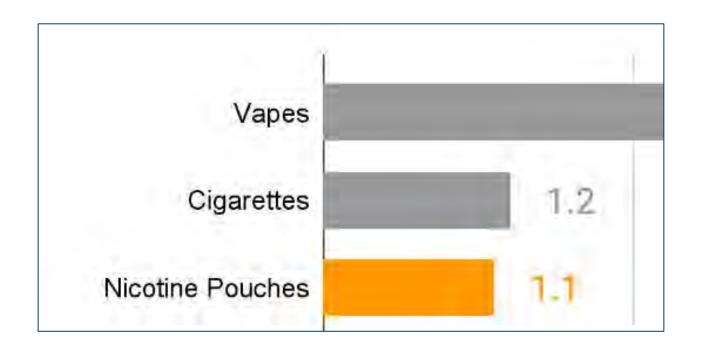
Nicotine Pouch Use by California High School Students, %



Current Product Use by California High School Students



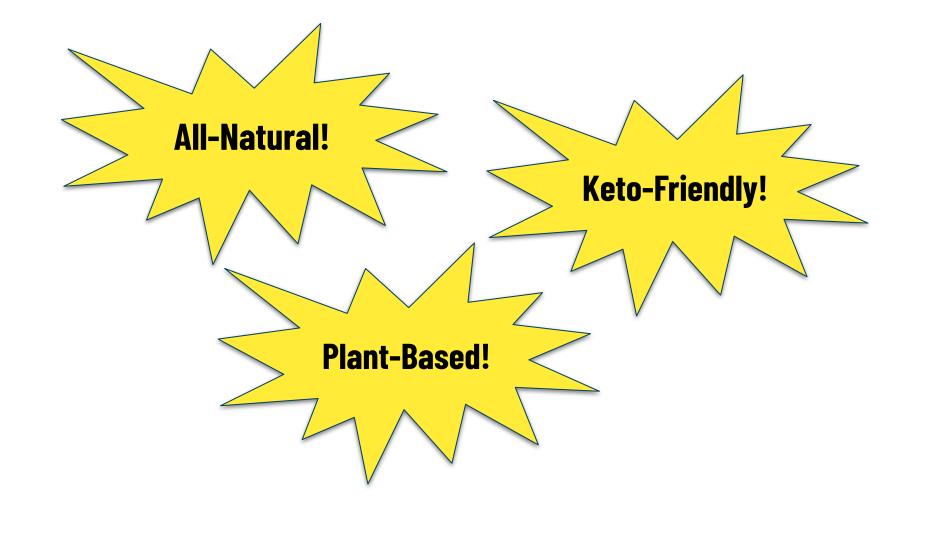
Current Product Use by California High School Students













Read more: American Spirit

Researchers have found youth and young adults rate products labeled "tobacco-free nicotine" as less harmful.



Meet "Zynfluencers": Smokeless nicotine pouches are having a moment





Federal and State Regulations

- Not FDA-approved for cessation or as modified-risk tobacco products
- ZYN/VELO/On! FDA applications have been under review since 2020
- Classified as tobacco products in California



What flavor is "chill?"





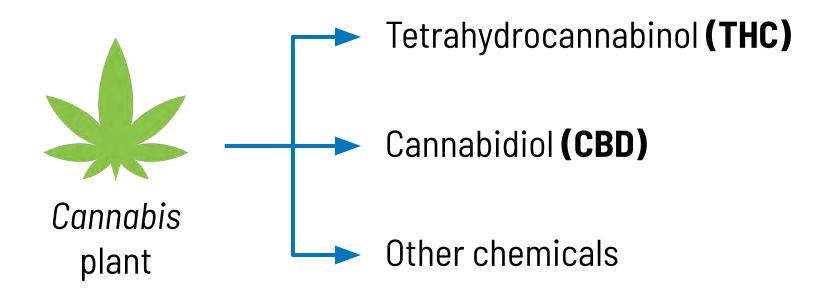
Key Takeaways: Nicotine Pouches

- ZYN and other nicotine pouches contain nicotine powder and are held between the lip and gum.
- Tobacco companies are exploiting the label "tobacco-free nicotine" to make pouches seem safer.
- Social media "Zynfluencers" are rampant.
- Pouches have been in regulation limbo for years.

Cannabis (Marijuana)

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What is Cannabis?



THC and CBD are cannabinoids that attach to nerve cells throughout the brain and body.

Cannabinoids affect memory, sleep, appetite, and many other body functions.

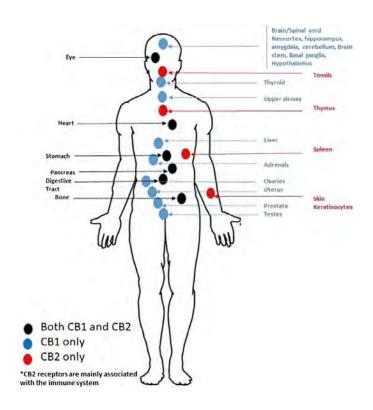


Image: Reddy, Maurya, and Kumar (2019)

How Cannabis Is Used



Inhaledby smoking or vaping



Consumed in foods and drinks



Absorbed through skin or tongue

Cannabis "Edibles"













Cannabis (THC) Vapes



Pod Vapes
Ex: STIIIZY

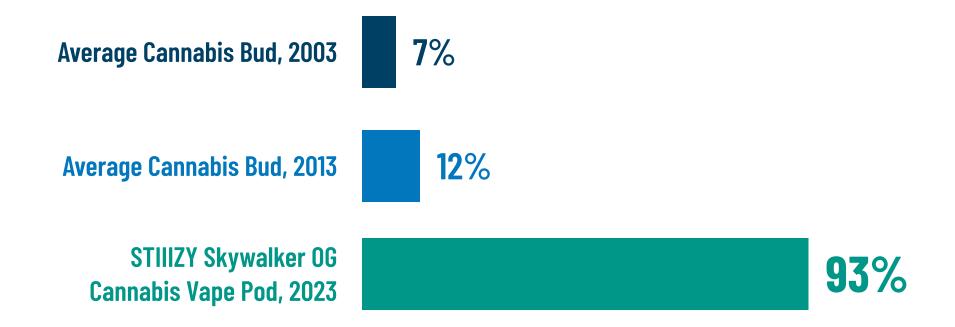


Vape Pen "Carts" (Cartridges)



"All In One" Disposable Ex: FRYD, Dime, Blinker

How Much THC Do Cannabis Vapes Contain?



Key Takeaways: Cannabis

- Cannabis products deliver cannabinoids like THC and CBD, which affect many body functions.
- The delayed effects of edibles often lead to excessive consumption and "greening out."
- Both cannabis vapes and edibles can deliver extremely high doses of THC.

Other Products



The following items are not intended to represent the typical vapes being used by young people.

Barely Regulated Smoke Shop Products



CBD Vapes



Hemp-Derived Delta 8, 9, 10, and HHC



Amanita Mushroom Vapes

Supplement, Vitamin, and Essential Oil Products



Melatonin



Caffeine, Vitamin B12, and Amino Acids



MONQ and FÜM (Essential Oils)

The "Now With Extra E-Waste" Collection



Geek Bar Pulse



Swype 30K



Craftbox V-Play

Products That Earned Letters From the FDA



Pure Explosions Minions Disposable



Super Mario Disposable



High Light

Key Takeaways: Other Products

- Online retailers and smoke shops are the frontiers for new products and unverified health claims.
- Slow, inconsistent regulation is causing a "cat and mouse game."
- Quality control and safety are not guaranteed.

Health Risks

Framing Our Discussions

- Recognize the context of students' lives
- Our goal is to enable youth to make healthy decisions based on accurate information
- Try to differentiate The Industry from the industry

Nicotine and THC can affect learning, attention, and memory.

Both are especially **addictive** in teen brains and when used during times of **stress**.



Vaping and Teen Mental Health

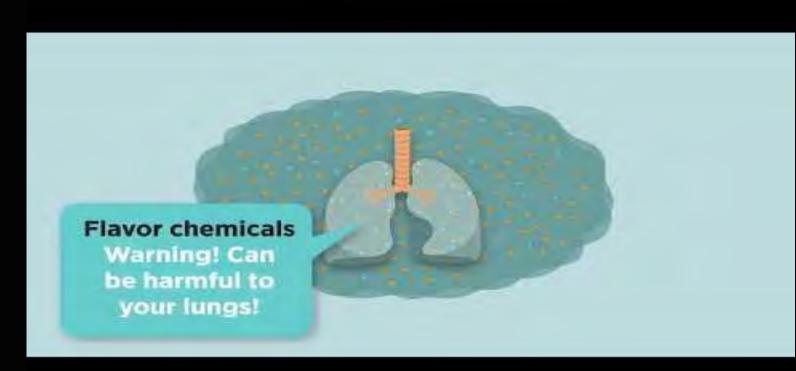


- Most common reason students reported for vaping: to relax or relieve stress and anxiety
- Vaping and cannabis use are linked with depression, suicidality, and other mental health disorders
- These links are complex and multi-directional

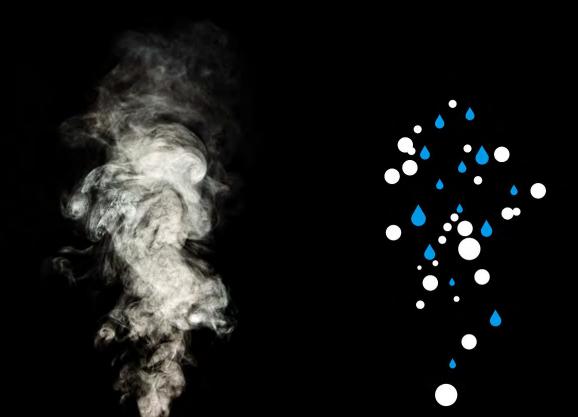
High THC Cannabis Use May Increase the Risk Of:



Petrilli, 2022; Chadi, 2020; New York Times, 2022

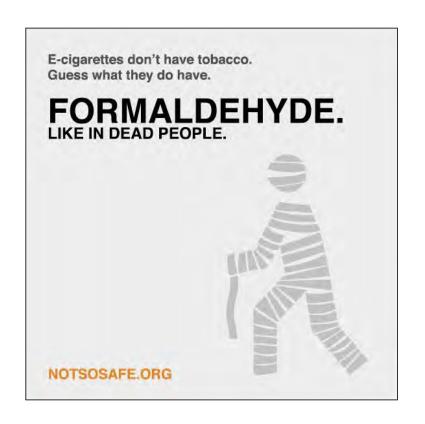


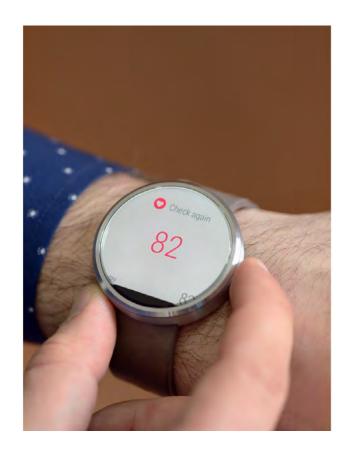
Vape aerosol is a mixture of tiny liquid droplets and solid particles.



PG/VG and artificial flavors can form toxins when heated and inhaled.

The **coil** can also leach metals into the e-liquid.





Vaping and oral nicotine use **raise heart rate and blood pressure**through the "fight or flight"
sympathetic nervous system.

Research has linked vaping with increased risk of cardiovascular disease, independent of smoking.





WARNING: This product contains nicotine. Nicotine is an addictive chemical.

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Key Takeaways: Health Risks

- Nicotine and THC are more addictive to the teen brain.
- Both can affect learning, memory, and attention, and can worsen depression.
- Vaping generates harmful chemicals and metals.
- Vaping and nicotine affect the heart and blood vessels.
- Flavored vapes are illicit goods and not FDA-tested.

Helpful Resources

Prevention

Intervention

Cessation

Prevention Curriculum



CATCH My Breath



You and Me, Together Vape-Free



Smart Talk

Parent and Caregiver Resources



<u>Let's Talk Cannabis</u>
<u>Toolkit</u>



<u>CATCH My Breath</u> <u>Toolkit</u>

Three Reasons to Consider Substance Use Interventions

- Suspensions affect attendance and achievement, and a significant number of them are related to substance use.
- 2. Suspension temporarily relocates substance use, but it does not address root causes and may worsen the issue.
- Unlike other suspendable behaviors, substance use harms the person doing it and does not always have a direct victim.

Intervention: Facilitated by School Staff





INDEPTH: An Alternative to Suspension or Citation

- Utilize motivational interviewing and stages of change theory
- Provide education on vaping and cannabis risks
- Individual or small group formats
- Training available at no cost

Intervention: Self-Paced Online Programs

Vaping: Know the truth





- Provide education on vaping and cannabis risks along with some skill building components
- Can complement existing counseling sessions
- Completed individually and tracked through dashboards

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YVAPE

Telehealth Nicotine/Cannabis
Vaping Alternative to Suspension

YVAPE Website
YVAPE Flyer
YVAPE Brochure



WHO WE ARE

YVAPE is a **FREE** educational intervention program with phone and video coaching support for students who have been found with or under the influence of nicotine and/or marijuana at school.

YVAPE is available to...

- » California public schools
- » Students 12 years and older
- » Offered in English and Spanish



REFER YOUR STUDENTS

can the QR CODE to access the secure veb referral form or visit **yvape.org**

CONTACT US

Web: www.yvape.org Phone: 858.300.1023

Email: yvape-support@health.ucsd.edu

© 2024 YVAPE is operated by Kick It California at UC San Diego and is funded by the California Department of Education.



ENROLLMENT

- » The student is found with or under the influence of nicotine and/or marijuana at school.
- The student and parent/guardian (of students 12-17 years old) provide the school with verbal consent for participation.
- » The school enrolls the student in YVAPE via yvape.org.



PROGRAM

- » Initial Call: The first session (15-20 mins) covers nicotine and marijuana use.
- » Videos and Discussion: The student will watch at least three videos and will discuss questions (15-30 mins) with their parent/guardian, school staff, or YVAPE Coach.
- » Follow-up Call: The follow-up session (10-15 mins) covers changes in their substance use behavior, the videos, and discussion questions.
- » Optional Check-in Call: Extra coaching session to provide support to the student at their request.



BENEFITS

- » Easy online enrollment system
- » Flexible, can be utilized during or outside of school hours
- » Students' chances of quitting nicotine and marijuana improve
- » Ability to check student progress

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Kick It CA

Tobacco Cessation Services

Kick It CA Website
Student Referral Form
Kick It CA Flyer



Youth-Friendly Cessation Resources



Cessation Mini-Poster



Quitting Tips

Thank You!

Stephan Lambert
Prevention Coordinator
slambert@ocde.us



Resources

www.tupeca.org

UPCOMING CSHA WEBINARS

My Voice Saves Lives: Engaging Young People as TUPE Peer Educators

- Wednesday, October 9th 2024, 1:00 2:00PM Pacific
- Registration Link

The Triangulum of Cannabis, Tobacco, and E-cigarette Use: Its Effects on Physical Health, Addiction, and Mental Health, and How You Can Best Help

- Wednesday, November 6th 2024, 10:00 11:00AM Pacific
- Registration Link

STAY CONNECTED



schoolhealthcenters.org



info@schoolhealthcenters.org



sbh4ca



sbh4ca



Stephan Lambert

SLambert@ocde.us

Tracy Nguyen tnguyen@schoolhealthcenters.org