

# Vaping



# What is VAPING?



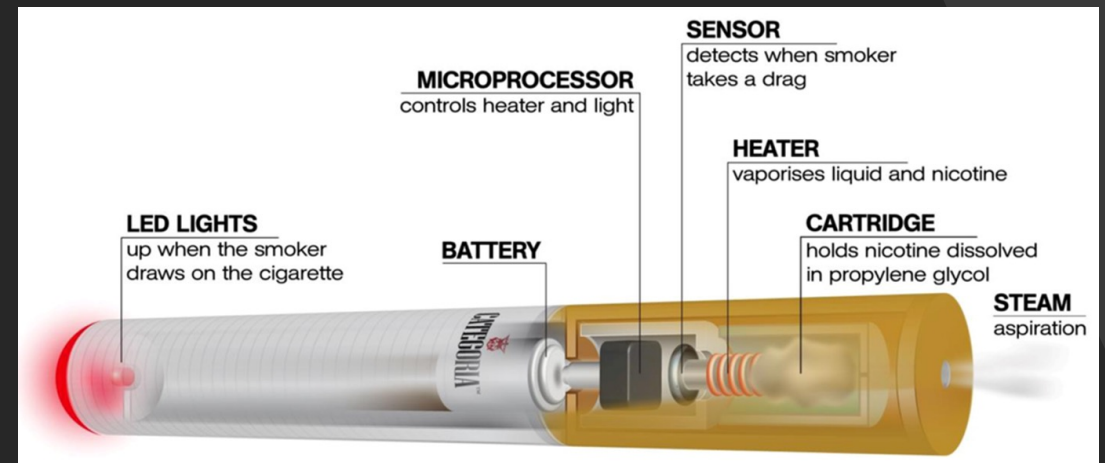
- The act of inhaling vapor produced by any kind of e-cigarette or personal vaporizer.
- Users load a liquid or oil solution containing their “drug” of choice into the device.
- When they draw on the device, the battery heats the liquid, which is then atomized into an inhalable vapor.

## Fast Facts (Oct. 2022)

- CDC found that 2.55 million U.S. middle and high school students reported current (past 30-day) e-cigarette use in 2022.
- Nearly half (46%) of high schoolers who vape doing so near daily
- Among youth who currently used e-cigarettes, more than one in four (27.6%) used them daily and more than four in 10 (42.3%) used them on 20 or more of the past 30 days.

# Breaking it down

- Vaping is the act of inhaling and exhaling the aerosol, often referred to as “vapor,” produced by an e-cigarette or similar device. Components include:
  - Cartridge or reservoir to hold a e-liquid
  - Heating element (atomizer)
  - Power source (battery)
  - Mouthpiece to inhale



**It's Just Water Vapor**



# E-cigarette aerosol is NOT just "water vapor"



## Prop 65\* Chemicals in Vapor<sup>2</sup>

Acetaldehyde  
Formaldehyde  
Isoprene  
Toluene  
Lead  
Nickel  
Nicotine  
N-Nitrosornicotine



## Metals in Vapor<sup>2</sup>

Aluminum  
Chromium  
Copper  
Iron  
Manganese  
Nickel  
Lead  
Antimony  
Tin  
Zinc



## Carcinogens Found in the Urine of Vapers<sup>9</sup>

Acrylonitrile  
Acrolein  
Propylene Oxide  
Acrylamide  
Crotonaldehyde



## Withdrawal Symptoms<sup>6</sup>

Cravings  
Anxiety  
Tingling  
Nausea  
Cramps  
Weight Gain  
Insomnia  
Mood Disorders  
Depression

\* Proposition 65 (Prop 65) is the Safe Drinking Water and Toxic Enforcement Act of 1986, which requires the State to publish a list of chemicals known to cause cancer or birth defects or other reproductive harm.

# The Evolution of E-Cigarette, or Vaping, Products



1<sup>st</sup>

**GENERATION**

Disposable  
e-cigarettes



2<sup>nd</sup>

**GENERATION**

E-cigarette  
with prefilled  
or refillable  
cartridge



3<sup>rd</sup>

**GENERATION**

Tanks or Mods  
(refillable)



4<sup>th</sup>

**GENERATION**

Pod Mods  
(prefilled  
or refillable)




# Puff Bars

- Were banned for flavoring
- They came back using **synthetic Nicotine** to skirt FDA deeming/regulations.



All PuffBar products listed on this website contain nicotine but do not contain tobacco or anything derived from tobacco. PuffBar products are not intended for use with any tobacco product or any component or part of a tobacco product.

**WARNING:** PuffBar products are not intended to diagnose, treat, cure, or prevent any disease, condition, or disorder and are not smoking cessation or nicotine replacement therapy products. The FDA has not reviewed these products, nor has it evaluated their safety or any of the statements made regarding these products. PuffBar products contain nicotine, which is a highly addictive substance, and are intended to be used only by adults at least 21 years of age who use combustible cigarettes or other tobacco or nicotine vaping products. Do not use PuffBar products if you are pregnant or nursing, if you have heart disease, high blood pressure, diabetes, ulcers, liver or kidney disease, throat disease, asthma, or difficulty breathing. Do not use PuffBar products if you are taking theophylline, ropinirole, or clozapine. As with other nicotine products, use of PuffBar products can increase your heart rate and blood pressure and may cause nausea or dizziness or aggravate existing respiratory conditions. Use of PuffBar products may expose you to certain chemicals identified as harmful and/or carcinogenic, including aldehydes, volatile organic compounds, and metals.

 **WARNING:** PuffBar products can expose you to chemicals including glycidol, which is known to the States of California to cause cancer, and nicotine, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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## DISPOSABLE E-CIGS

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

SALE



SIXT PRO DISPOSABLE -  
4000 PUFFS

**\$15.00** ~~\$17.95~~

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



Suorin Air Bar Box  
Disposable E...

**\$15.95**

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



FLUM FLOAT Disposable  
E-Cigs - P...

**\$16.95**

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



Suorin Air Bar Max  
Disposable E...

**\$16.95**

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



VFUN D1 Disposable  
E-Cigs - Pack...

**\$10.95**

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



Hyde Plus Color Edition  
Disposab...

**\$14.95**

## SUORIN LIMITED EDITION

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

SOLD OUT



Suorin Air V2 Navy  
Special Edi...

**\$19.95**

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

SOLD OUT



Suorin Drop Metallic  
Prism Blue ...

**\$27.95**

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

SOLD OUT



Suorin Air V2 Ice Blue  
Special E...

**\$19.95**

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

SOLD OUT



Suorin Air V2 Sunset  
Purple Spec...

**\$19.95**

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

Trending



Suorin Air V2 Hollywood  
Red Spec...

**\$19.95**

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

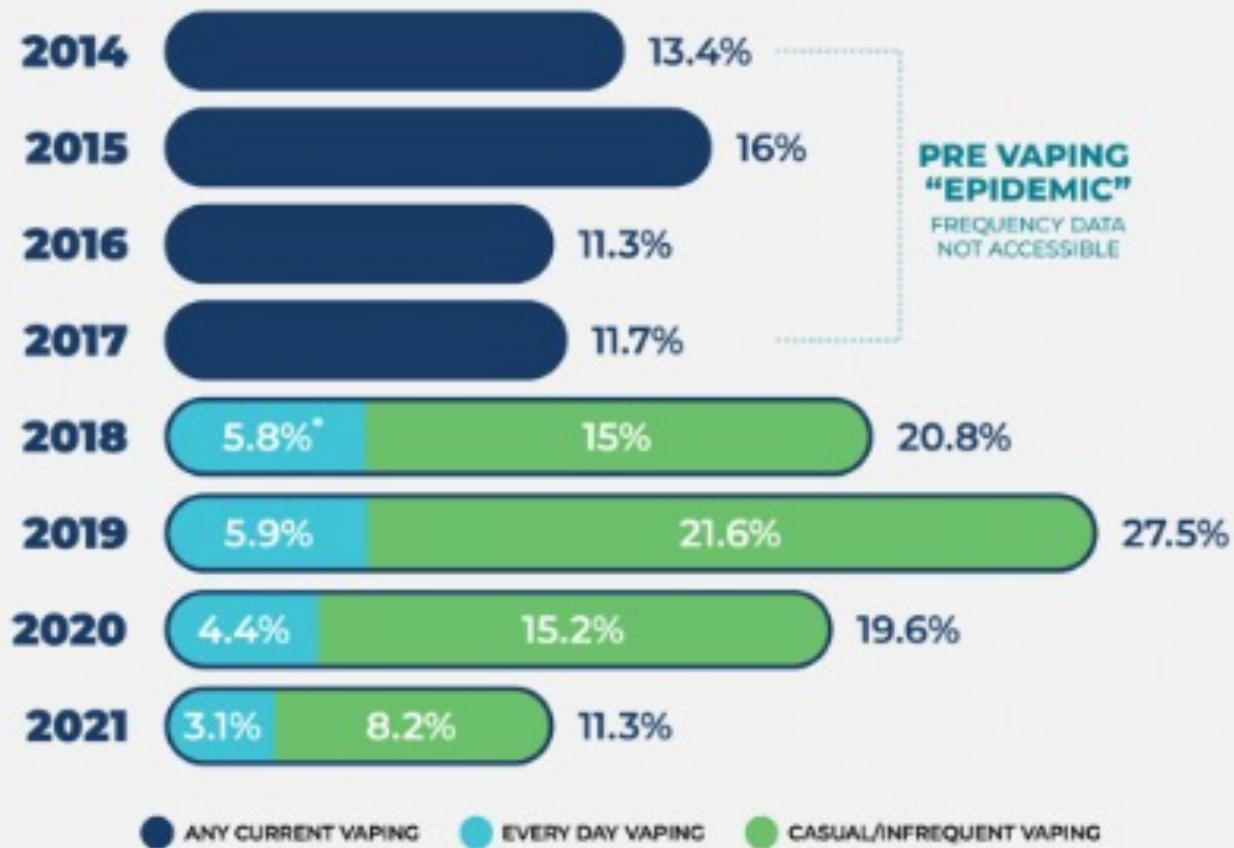
SOLD OUT



Suorin Air V2 Navy  
Special Edi...

**\$19.95**

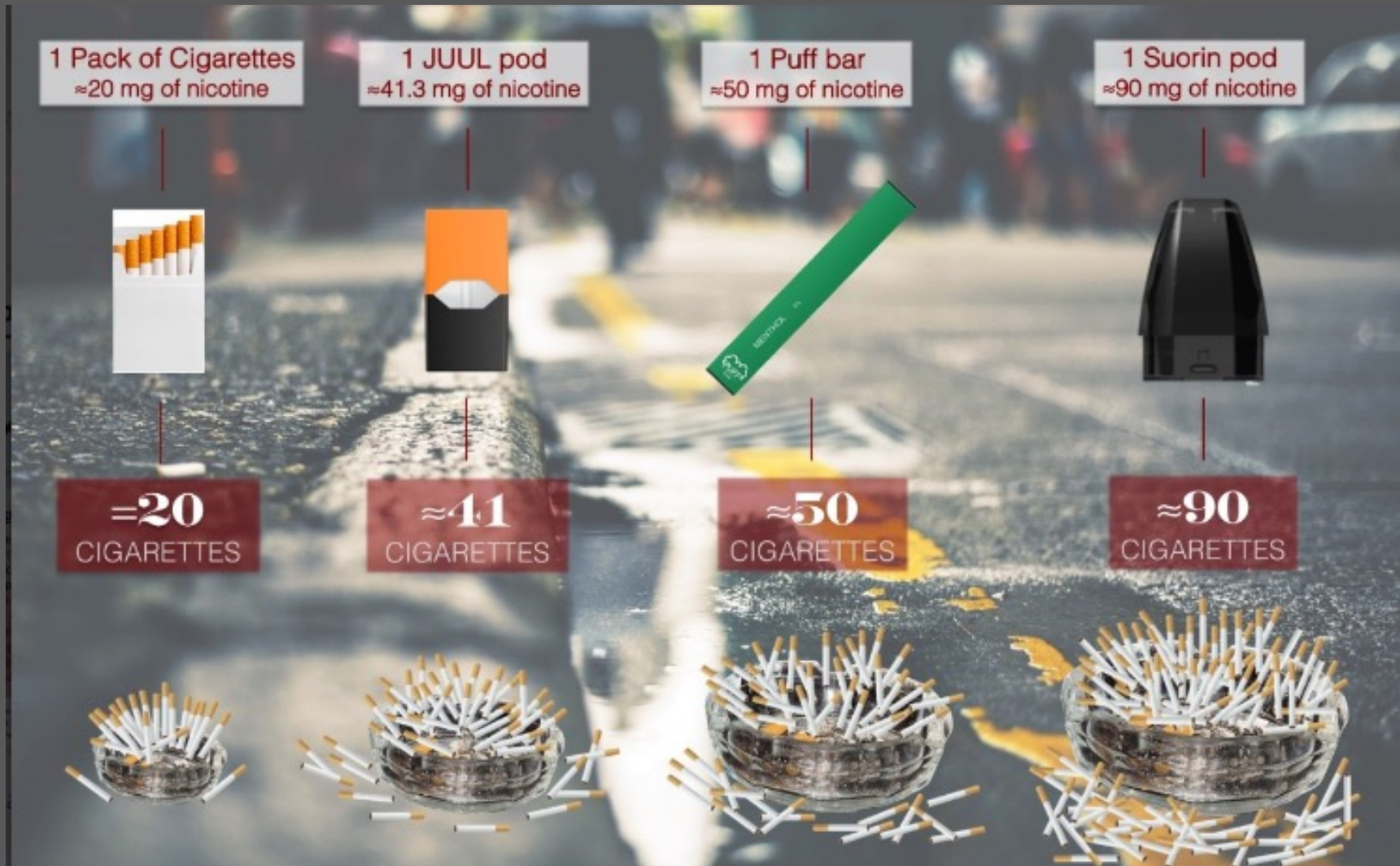
## UNITED STATES HIGH SCHOOL VAPING DATA 2014-2021



\*FREQUENT USE (DAILY USE DATA NOT AVAILABLE FOR 2018)

DATA FROM CDC'S NATIONAL YOUTH TOBACCO SURVEYS | GRAPH BY DANIELLE JONES OF CASAA

# HOW MANY CIGARETTES

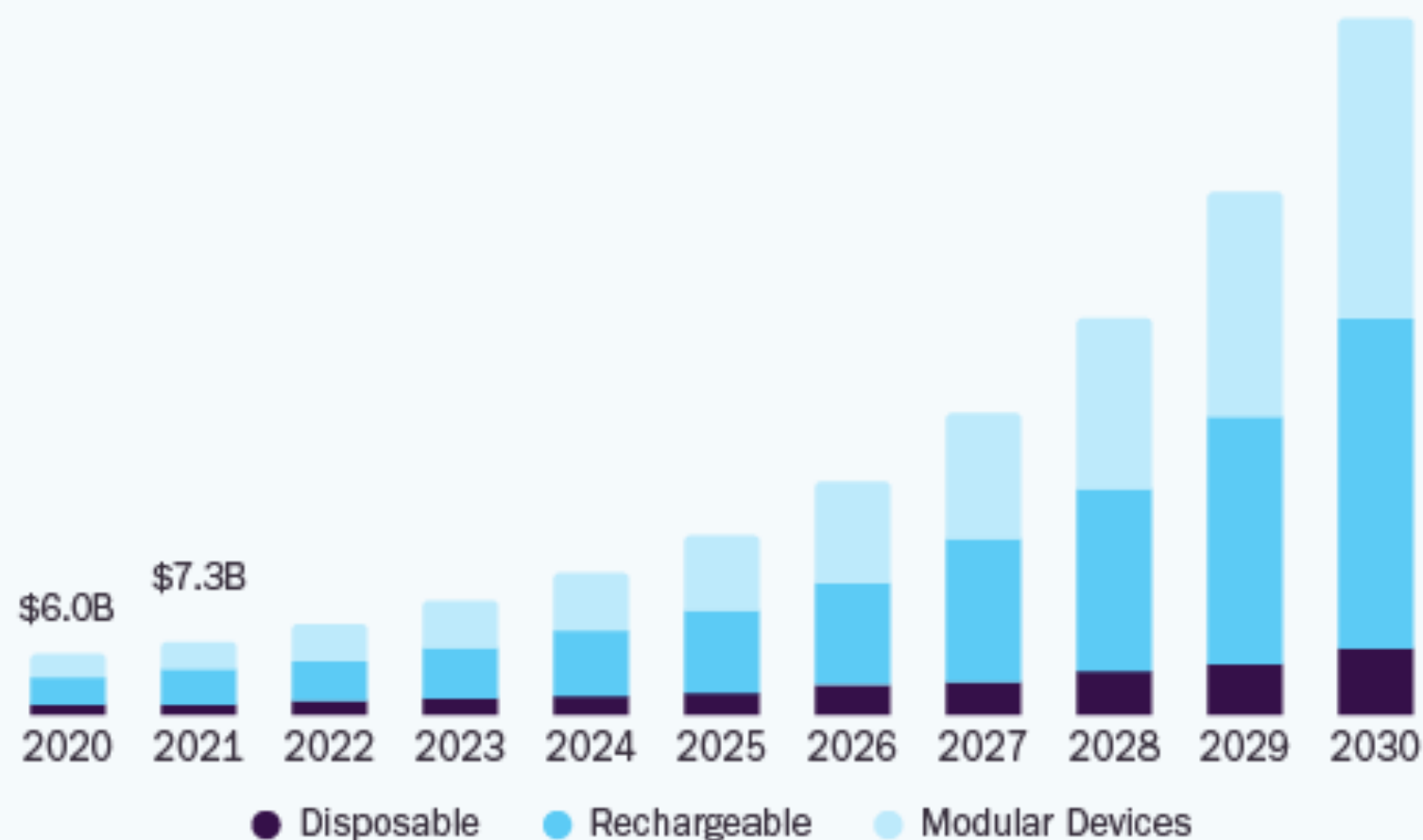


# WITH OR WITHOUT ELECTRONIC CIGARETTES BIG TOBACCO KNOWS HOW TO MAKE MONEY



# U.S. E-cigarette And Vape Market

size, by product, 2020 - 2030 (USD Billion)



GRAND VIEW RESEARCH

## 29.2%

U.S. Market CAGR,  
2022 - 2030

Source:  
[www.grandviewresearch.com](http://www.grandviewresearch.com)

# Fun Delicious Flavors



e-Liquid CottonCandy  
10ml eLiquid

**ECIGARETTE** USA  
WORLDWIDE DISTRIBUTION

**Logic Smoke**  
10ml eLiquid  
The Pleasures of Vaping

x high (24mg)  
high (16mg)  
med (11mg)  
low (6mg)  
non (0mg)

*CottonCandy Flavor*



**masterpiecesmoke...**  
Master piece smok...

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masterpiecesmokeshop "New ELiquid Alert" Swedish fish in a bottle. #fisheliquid 30ml bottles in 4mg 80VG/20PG, a perfect blend for clouds and flavor. #swedishfish #brooklyn #bushwick #masterpiece #clouds #comevape #driplife #driplyfe #ecig #eliquid #ejuce #flavorfordays #greenpoint #happyvaping #juicemeup #newjuice #nycvaper #newyorkcity #shoplocal #tasty #vape #vapor #vapeon #vapebar #premiumeliquid

♥ Add a comment... ○○○

# Vape Hoodie



# Vaping and Schools

- Products that look like pens or highlighters can easily be hidden by students in schools and classrooms
- Teachers may not recognize e-cigs, and smoke detectors won't catch the aerosol
- There is no odor



# VAPING AND PENNSYLVANIA YOUTH

State Epidemiological Outcomes Workgroup, 2019

Vaping can be done with any combination of flavoring, nicotine, marijuana or hash oil\*



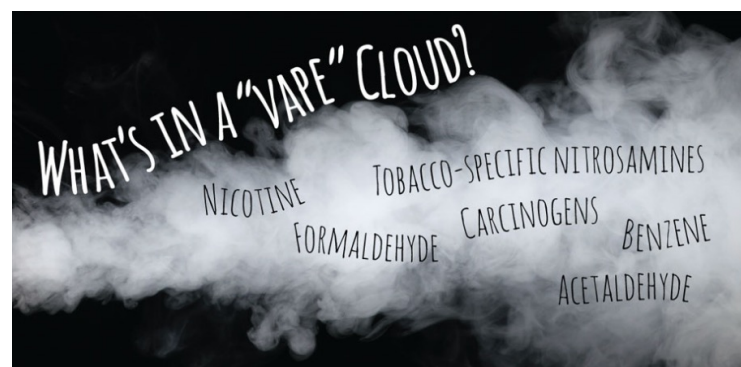
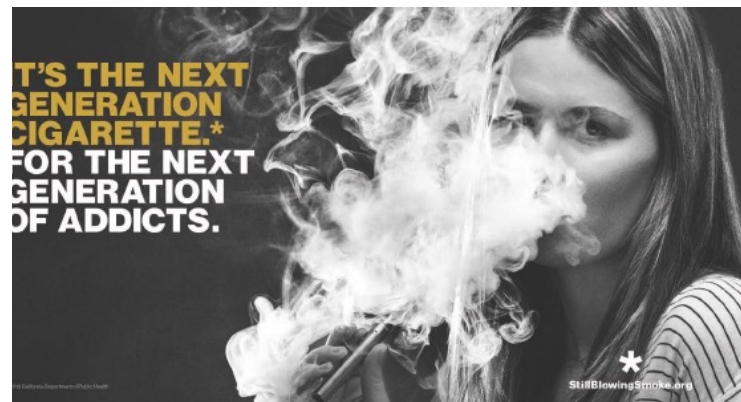
Next generation of e-cigarette/vaping devices:  
**Rechargeable**, often **odorless** and **easy to conceal**

\*Hash oil is a derivative of marijuana



# Vaping Cannabis (Potency)

- National average of marijuana's THC content:
  - 1978 was 1.37%
  - 1988 it was 3.59%
  - 1998 - 4.43%
  - 2008 - 8.49% University of Mississippi's Potency Monitoring Project (UMPMC)
- Colorado average of marijuana's THC content:
  - 2016 - 17.1% Colorado Health Research Council (CHRC)
- Hash oil product average THC content
  - 2019 – 75%
  - Ranges from 30% to 100% THC content



# Public:

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# Home:

- Talk to your kids about drugs, addiction, smoking or drinking.
- Teach your teen about e-cigarettes and regular cigarettes.
- Talk about the uncertainty of e-cigarette safety and about the definite possibility of addiction to nicotine that goes along with vaping
- Be the message. If you don't want your kids to vape, don't vape, either.



# Marijuana for Vaping

- Dry herbal marijuana (flowers), marijuana oil or wax and synthetic forms of marijuana
- Liquid THC is applied to a vaping device the same way that flavored nicotine liquid is
- Use of hash oil, is becoming more common



# Then and Now



**Signs to look  
for:**

**Mysterious Aroma**

**Unfamiliar Handheld Gadgets**

**Increased Thirstiness**

**Caffeine Sensitivity**

**Batteries and Chargers**

**Metallic Wires and Cotton Wicks**

**Discarded Atomizers**

# Questions