New Data on Vaping and Teen Drug Use What Teachers Need to Know EVERFI

Today's Agenda

1 Overview and Introductions

- **2** Monitoring the Future
- National Drug and Alcohol Facts Week
- **4** From Data to Practice with PDS

5 Panelist Q&A

In Partnership









Panelists



Dr. Emily Einstein
Washington, DC
Branch Chief | NIDA



Brian Marquis
Washington, DC
Public Liaison Officer | NIDA



Lauren Pingul
Romeoville, IL
Senior Implementation Manager |
EVERFI

Whole Child Lessons, No Cost to Educators





Prescription Drug Safety

Suggested Grade Level: 9th -12th

Total Lessons: 6 lessons, 10-15 minutes each

Aligns with NHES



At-a-Glance

Prescription Drug Safety is an innovative digital course that arms high school students with the knowledge and tools to make healthy, informed decisions when it comes to prescription medications.

Through interactive scenarios and self-guided activities, students learn the facts about drugs, how to properly use and dispose of them, and how to step in when faced with a situation involving misuse.

Course Highlights

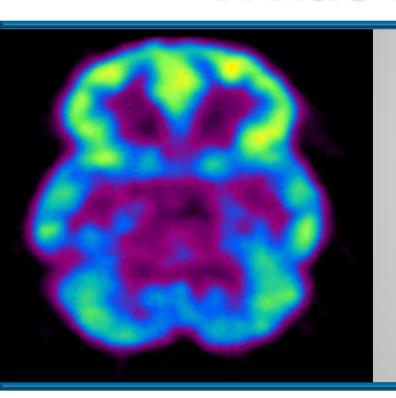
- Evidence-based, universal, public health approach to learning
- Interactive, true-to-life scenarios that reinforce key learning objectives

Course Topics

- Opioids, stimulants, and depressants
- The science of addiction
- Misuse refusal skills
- Supporting others

Access Now: everfi.com/newteacher

New Data on Vaping and Teen Drug Use: What Teachers Need to Know



Biology
Genes/Development

DRUG/ALCOHOL

Brain Mechanisms

Addiction

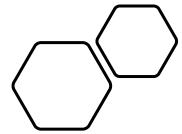
Emily B. Einstein, P.h.D.

Chief, Science Policy Branch National Institute on Drug Abuse







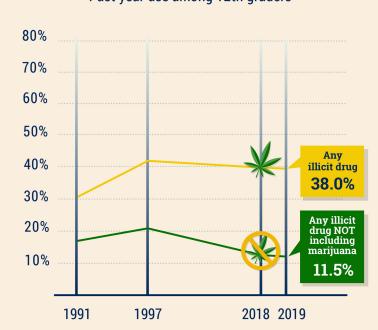


Monitoring the Future is an annual survey of 8th, 10th, and 12th graders conducted by researchers at the Institute for Social Research at the University of Michigan, Ann Arbor, under a grant from the National Institute on Drug Abuse, part of the National Institutes of Health. Since 1975, the survey has measured how teens report their drug, alcohol, and cigarette use and related attitudes in 12th graders nationwide; 8th and 10th graders were added to the survey in 1991,

42,531 STUDENTS FROM 396 PUBLIC AND PRIVATE SCHOOLS PARTICIPATED IN THE 2019 SURVEY.

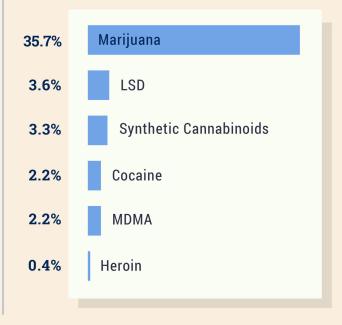
ILLICIT DRUG USE

ILLICIT DRUG USE STEADY Past year use among 12th graders



PAST YEAR ILLICIT DRUG USE

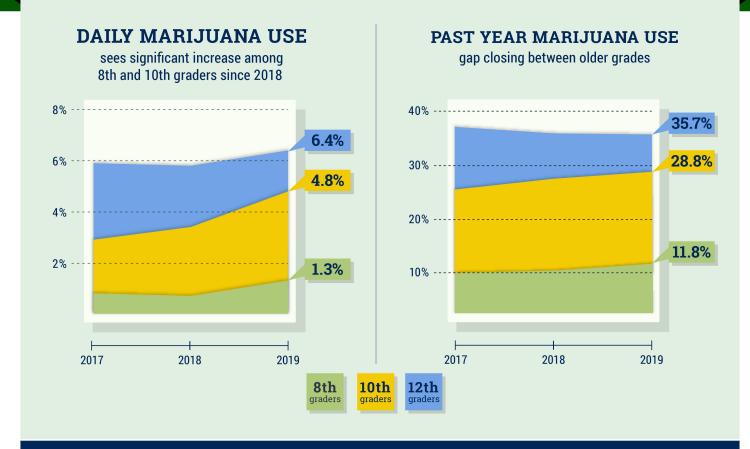
Past year use among 12th graders







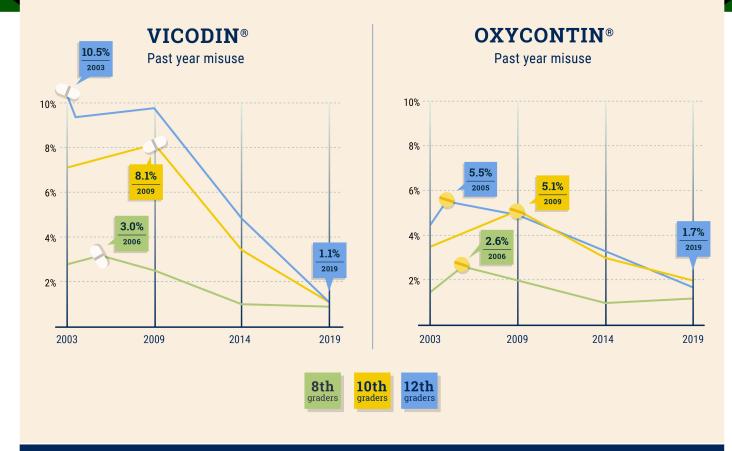
DAILY MARIJUANA USE IN LOWER GRADES INCREASES BUT PAST YEAR MARIJUANA USE STEADY







PRESCRIPTION DRUG MISUSE CONTINUES DECLINE FROM PEAK YEARS

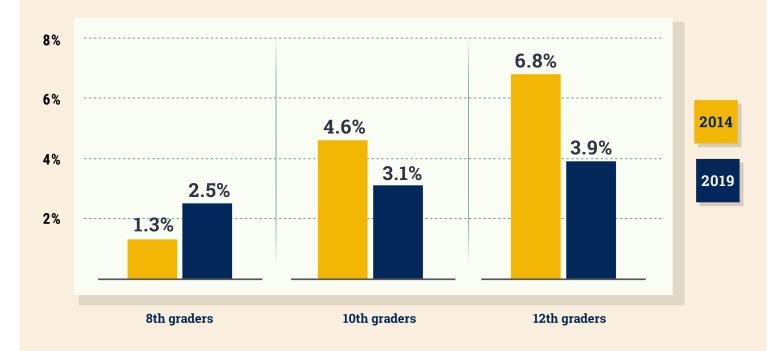




PRESCRIPTION DRUG MISUSE CONTINUES DECLINE FROM PEAK YEARS

ADDERALL® MISUSE SEES SIGNIFICANT CHANGES IN PAST 5 YEARS

a decrease in 10th and 12th grades, but an increase in 8th grade

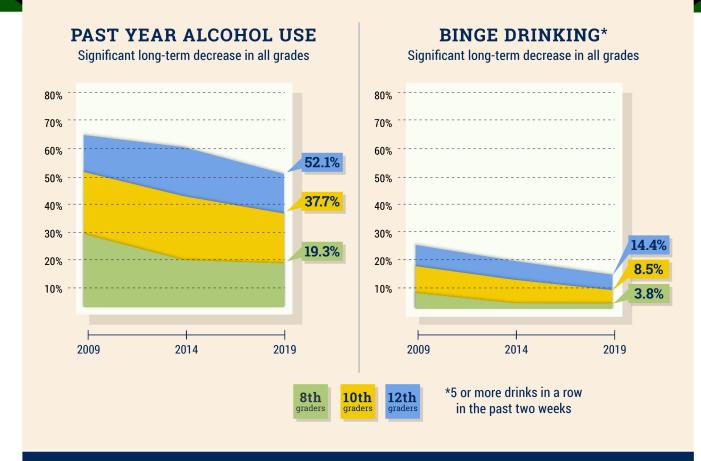






DRUGABUSE.GOV

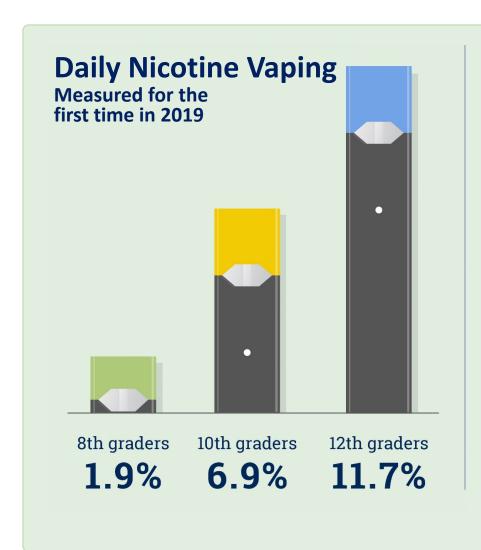
ALCOHOL USE CONTINUES ITS DECLINE

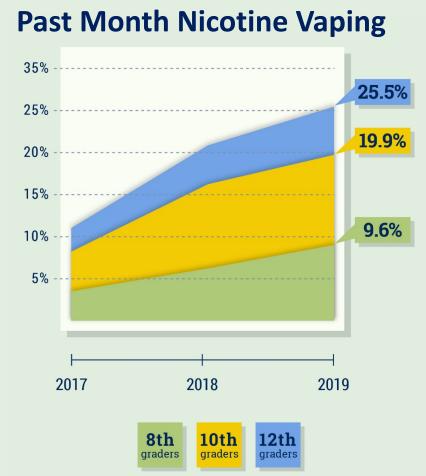






Teen Nicotine Vaping Climbs Significantly



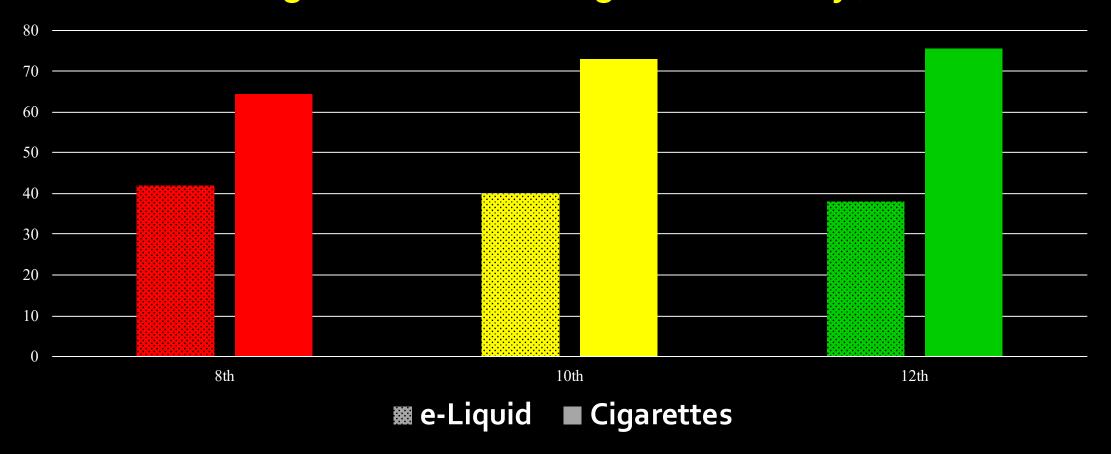


Past month nicotine vaping Equates to:

1 in 10–8th graders
1 in 5–10th graders
1 in 4–12th graders

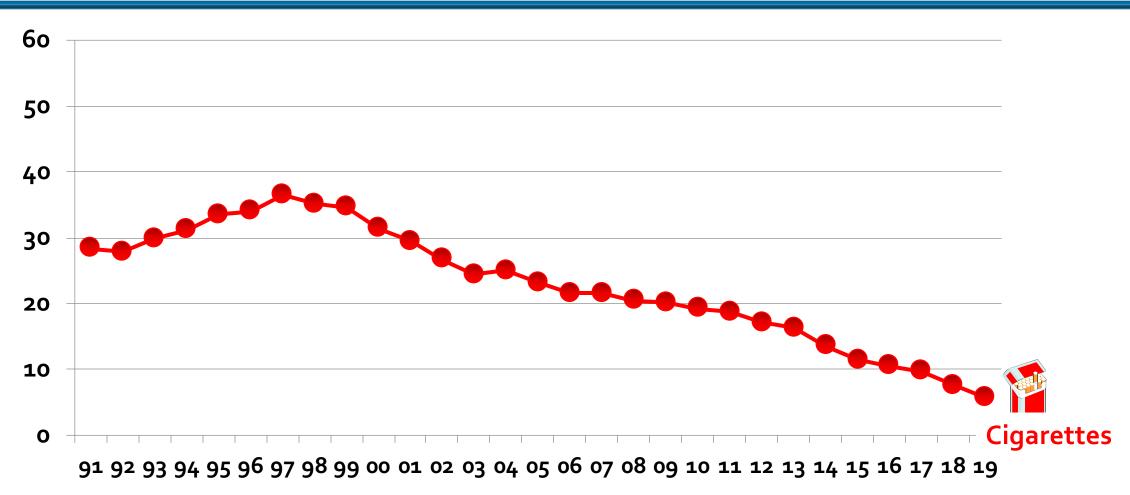
2019 Monitoring the Future Survey

Percent Perceiving Great Risk of: Vaping e-liquid with Nicotine Regularly, and Smoking 1+ Packs of Cigarettes Daily, 2019



Percentage of U.S. 12th Grade Students Reporting Past Month Use of Cigarettes

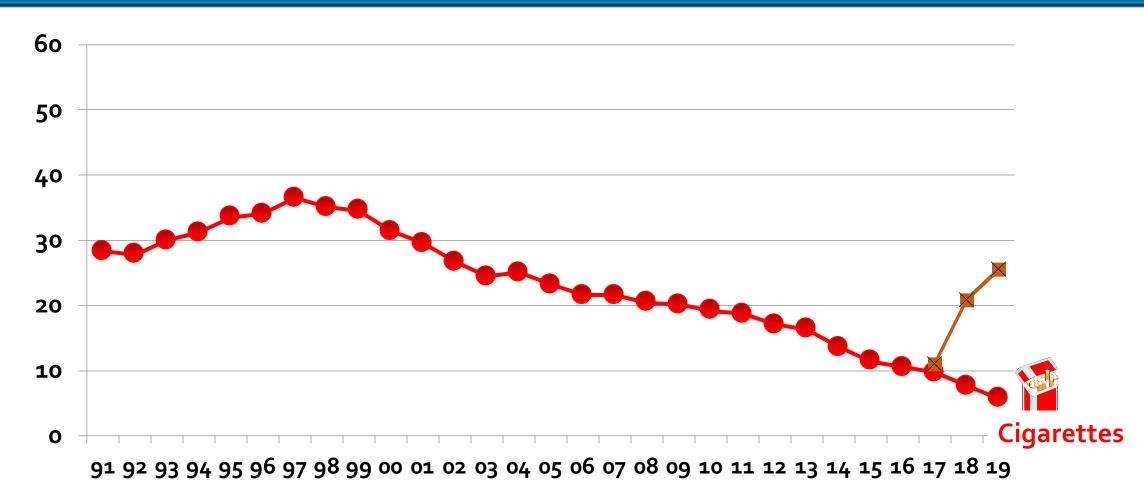




University of Michigan, 2019 Monitoring the Future Study.

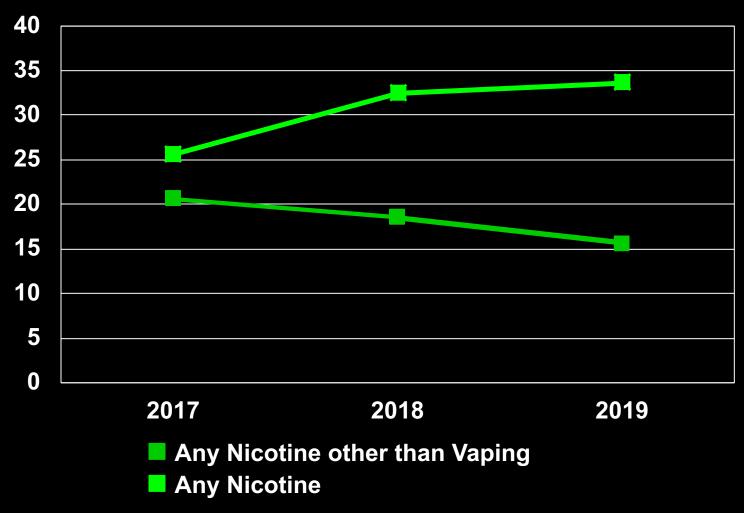
Percentage of U.S. 12th Grade Students Reporting Past Month Use of Cigarettes and Nicotine Vaping





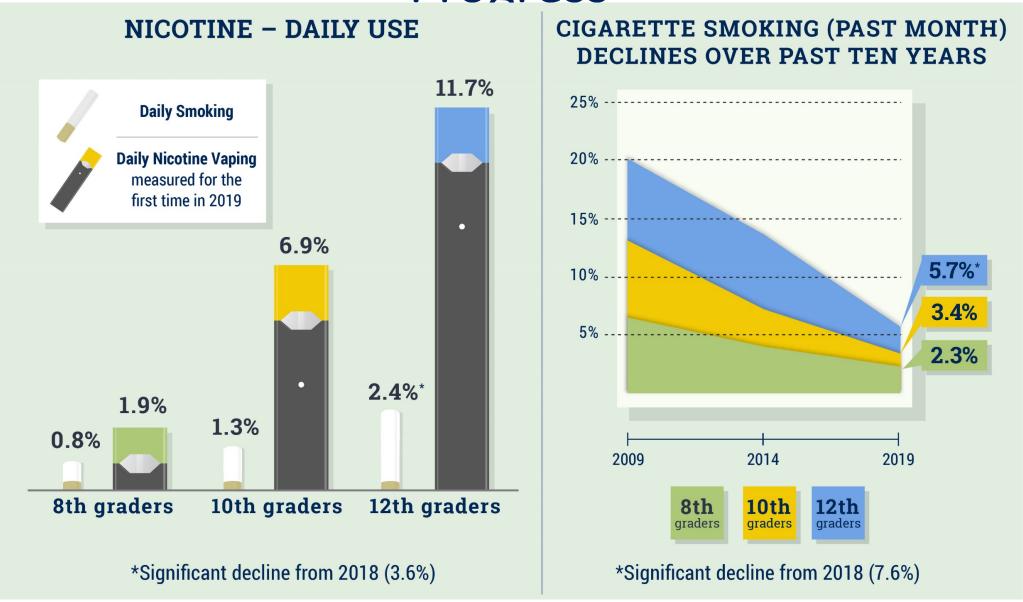
University of Michigan, 2019 Monitoring the Future Study.

Percent of 12th Grade Students Reporting Past Month Use of: Any Nicotine Other Than Vaping and Any Nicotine

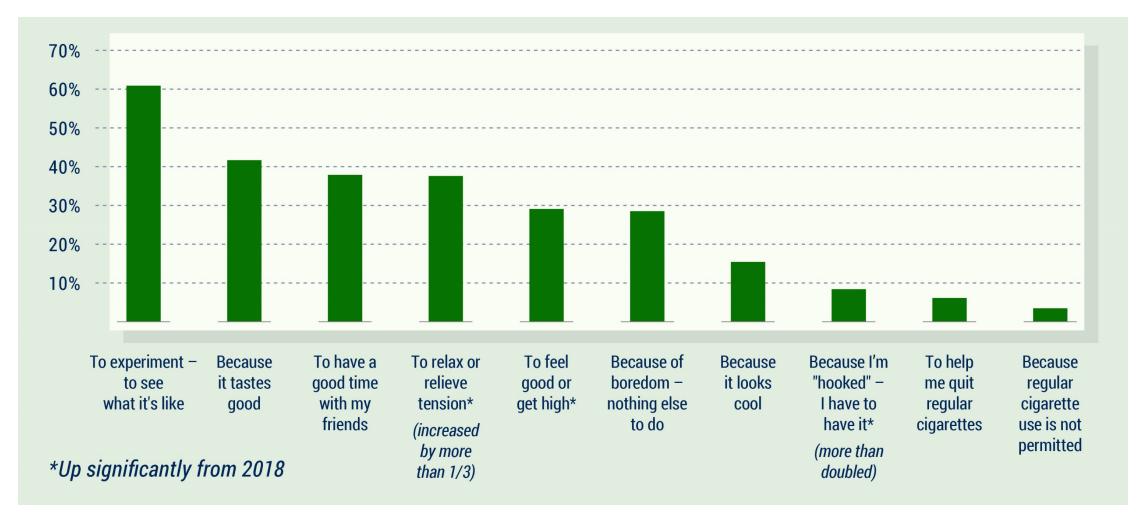


SOURCE: University of Michigan, 2019 Monitoring the Future Study

Tobacco and Nicotine: Vaping Threatens Progress



Teens Report Reasons for Vaping



Key Issue

Safer *‡* Safe

Health Effects of the Nicotine Molecule

- Addiction
- Priming of brain response to rewarding properties of other drugs
- Acute toxicity, with poisoning fatality possible when ingested
- Adverse birth outcomes, when exposed prenatally
- In experimental systems, affects:
 - Brain development (with prenatal or adolescent exposure)
 - Carcinogenic mechanisms
 - Immune function
 - Insulin release
 - Lung development when exposed prenatally
- May have therapeutic potential—BUT is only current approved by FDA for nicotine replacement (i.e. patch, gum, lozenge, spray)

E-Cigarette Use may Lead to Combustible Cigs

In a prospective study of 14 year old students, *E-Cigarette use* predicted onset of—

- Any Combustible Tobacco Product: 2.75 times more likely (AOR-adjusted odds ratio)
- Smoking Cigarettes 1.73 AOR

Leventhal, et al. JAMA 2015;314(7):700-707.

In a prospective study of 12-15 year olds, *E-Cigarette use* predicting onset 2 years later of—

- Ever Using Cigarettes: 4.09 times more likely (AOR)
- Currently Smoking Cigarettes: 2.75 times more likely (AOR)

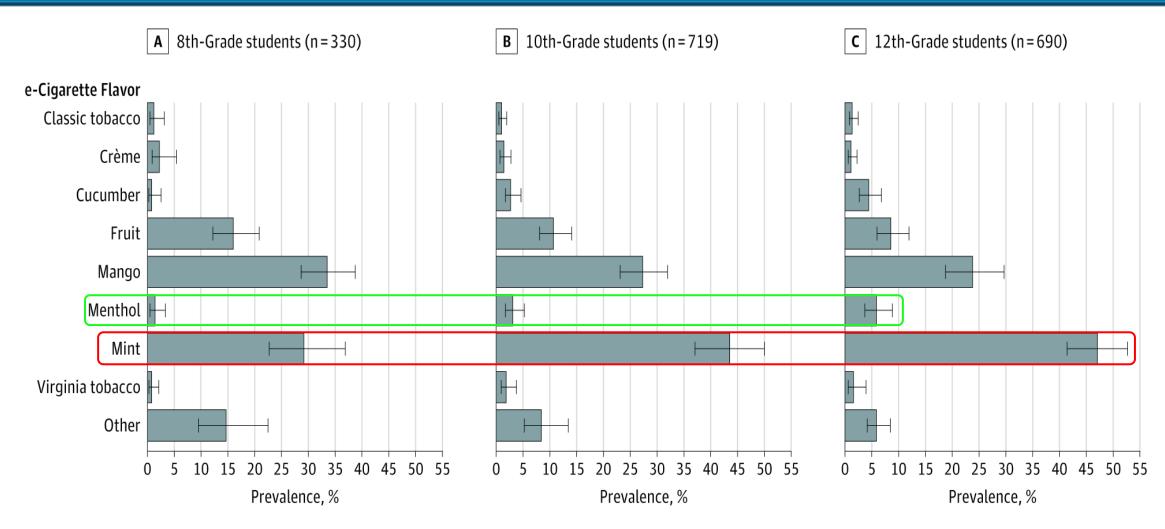
Flavorings Matter

2012-2013 U.S. study of 12-17 year olds (n=13,561), first tobacco product was flavored among users:

- Cigarettes 50%
- Smokeless 69%
- •E-Cigarettes 81%

Ambrose, et al. JAMA, 26 October 2015

Flavors of e-Cigarettes Used by Youths in the U.S. 2019



Flavor Used Most Often Among US Youths, Past 30-Day JUUL e-Cigarette Users. Weighted prevalence estimates of forced-choice responses to "Which JUUL flavor do you use most often?" The "other" category did not specify any flavor and could represent various flavors compatible with the JUUL device made by manufacturers other than JUUL Labs. Error bars indicate 95% CIs.

JUUL LABS STOPS THE SALE OF MINT JUULPODS IN THE UNITED STATES

COMPANY NEWS | YOUTH PREVENTION NOVEMBER 7, 2019

In light of the studies released this week relating to the 2019 National Youth Tobacco Survey and Monitoring the Future survey, JUUL Labs' CEO K.C. Crosthwaite announced that the company will immediately stop accepting orders from our retail partners for our Mint JUULpods in the U.S. and cease the sale of Mint JUULpods in the U.S. through our ecommerce site (JUUL.com).

A Guidance Documents / Enforcement Priorities for Electronic Nicotine Delivery System (ENDS) and Other Deemed Products on the Market Without Premarket Authorization

GUIDANCE DOCUMENT

Enforcement Priorities for Electronic Nicotine Delivery System (ENDS) and Other Deemed Products on the Market Without Premarket Authorization

Guidance for Industry

JANUARY 2020

Download the Final Guidance Document

Read the Federal Register Notice

Final

FDA Finalizes Enforcement Policy on Unauthorized Flavored Cartridge-Based E-Cigarettes That Appeal to Children, Including Fruit and Mint

Companies that do not cease manufacture, distribution and sale of unauthorized flavored cartridgebased e-cigarettes (other than tobacco or menthol) within 30 days risk FDA enforcement actions

Amid the epidemic levels of youth use of e-cigarettes and the popularity of certain products among children, the U.S. Food and Drug Administration (FDA) today <u>issued a policy prioritizing enforcement</u> against certain unauthorized flavored e-cigarette products that appeal to kids, including fruit and mint flavors. Under this policy, companies that do not cease manufacture, distribution and sale of unauthorized flavored cartridge-based e-cigarettes (other than tobacco or menthol) within 30 days risk FDA enforcement actions.

"The United States has never seen an epidemic of substance use arise as quickly as our current epidemic of youth use of e-cigarettes. HHS is taking a comprehensive, aggressive approach to enforcing the law passed by Congress, under which no e-cigarettes are currently on the market legally," said HHS Secretary Alex Azar. "By prioritizing enforcement against the products that are most widely used by children, our action today seeks to strike the right public health balance by maintaining e-cigarettes as a potential off-ramp for adults using combustible tobacco while ensuring these products don't provide an on-ramp to nicotine addiction for our youth. We will not stand idly by as this crisis among America's youth grows and evolves, and we will continue monitoring the situation and take further actions as necessary."

CURRENT LANDSCAPE OF FLAVORED E-CIGARETTE SUPPLY





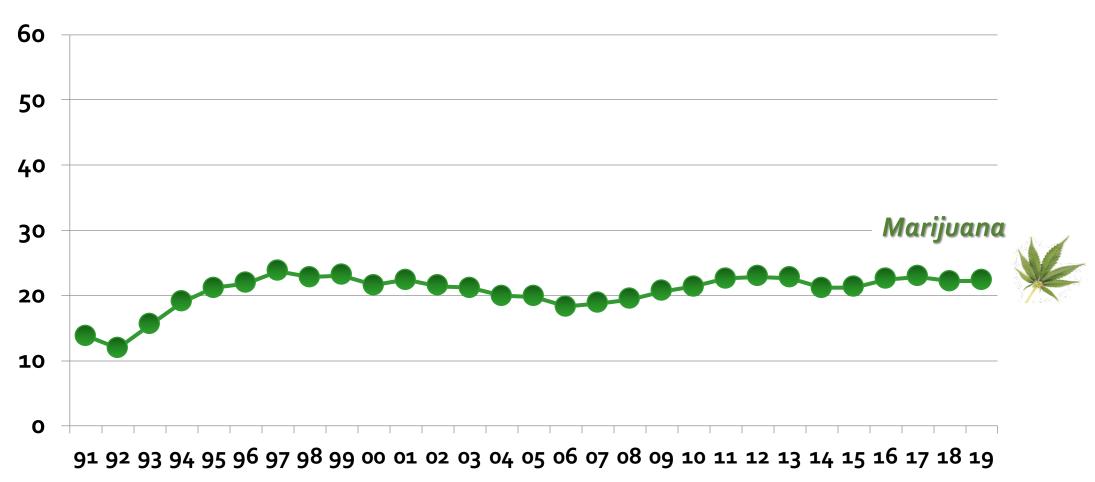


- On January 2, 2020
 FDA determined that all cartridge-based flavored e-cigarette products should be removed from the market within 30 days
- So far, disposable products are exempt.

Source: Delnevo et al Tobacco Control 2020

Percentage of U.S. 12th Grade Students Reporting Past Month Use of *Marijuana*

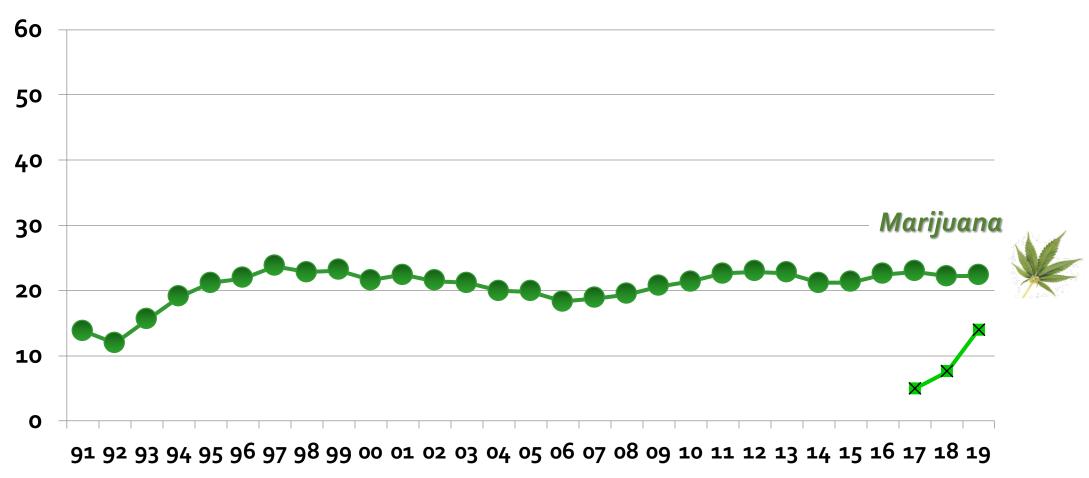




University of Michigan, 2019 Monitoring the Future Study.

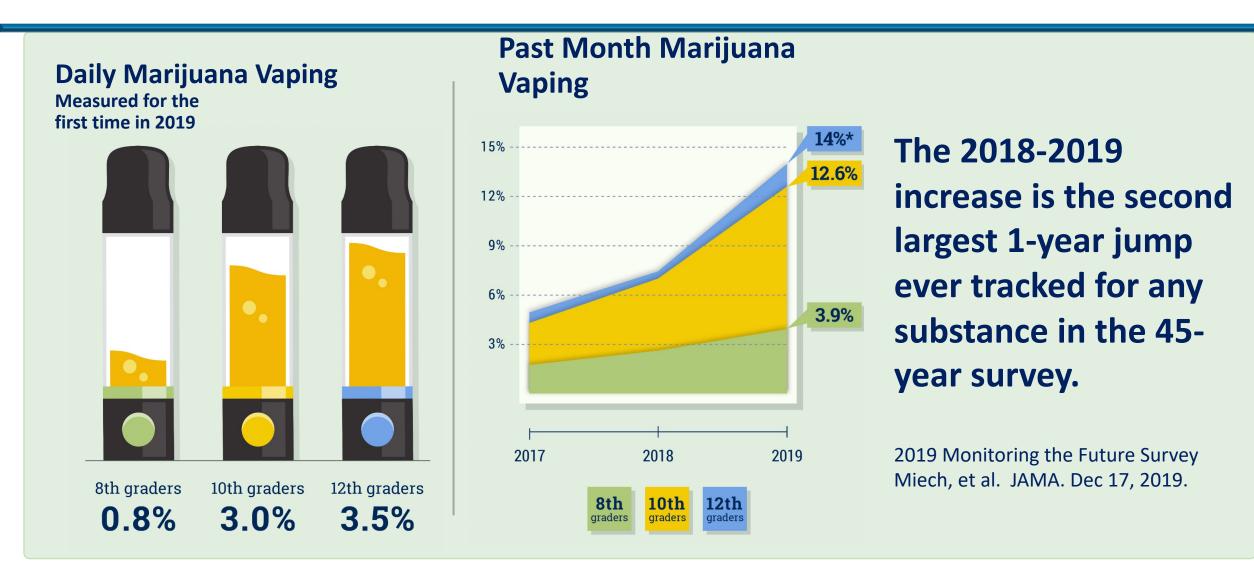
Percentage of U.S. 12th Grade Students Reporting Past Month Use of *Marijuana* and *Marijuana Vaping*





University of Michigan, 2019 Monitoring the Future Study.

Teen Marijuana Vaping Climbs Significantly



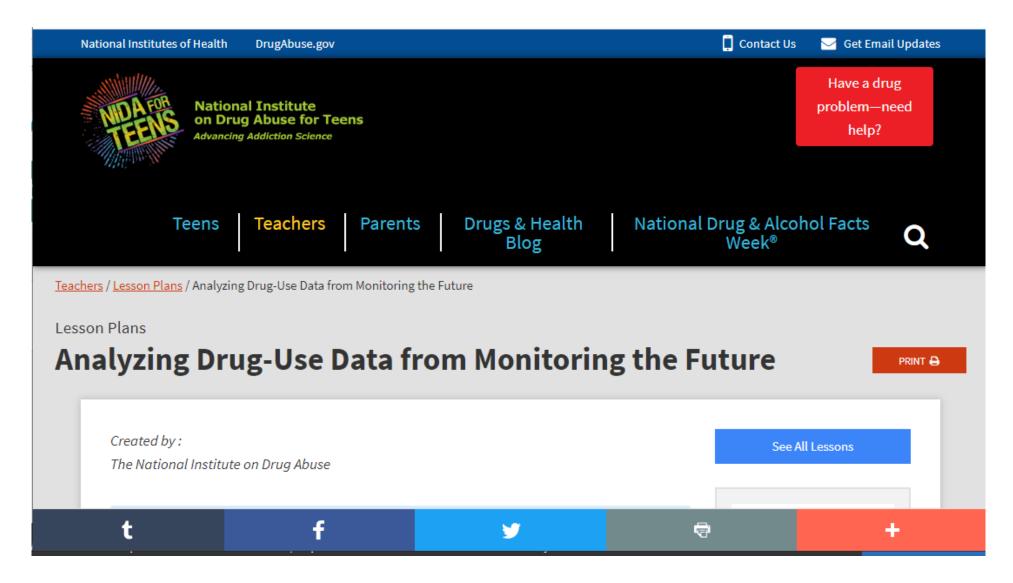
Summary:

- Most drug categories continue to show declining or stable use among 8th, 10th, and 12th graders
- Vaping prevalence has shown alarming increases in the past two years, which demands urgent action.



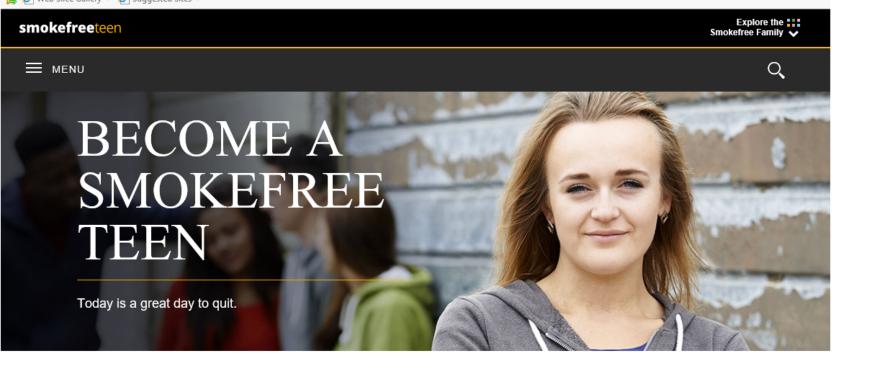
www.drugabuse.gov

Science = Solutions



Lesson Plan for Grades 7-12:

https://teens.drugabuse.gov/teachers/lessonplans/analyzing-drug-use-data-monitoring-future



Tools & Tips

Learn about different tools to help you quit and how to use them.



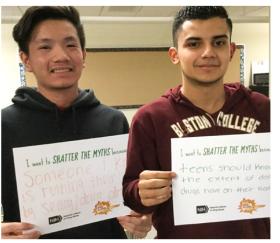




Shatter the Myths About Drug and Alcohol Use Among Youth in Your Community with National Drug and Alcohol Facts Week® (NDAFW)









Presented by Brian Marquis, Public Liaison Officer National Institute on Drug Abuse (NIDA)



Five Steps to Hosting an NDAFW Event



- **1. Form** your planning team.
- 2. Plan your NDAFW event.
- 3. Register your event.
- 4. Secure the science.
- 5. Promote your event!

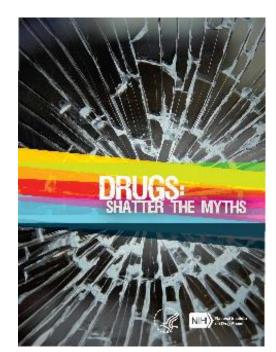
Learn more at teens.drugabuse.gov/NDAFW and join us March 30 – April 5.



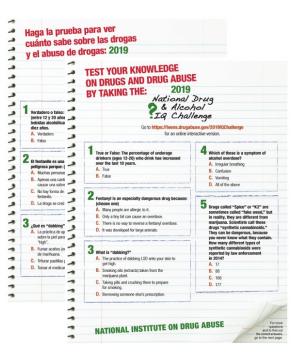


Free Print Resources from NIDA





Drugs: Shatter the Myths booklets



National Drug &
Alcohol
IQ Challenge activity



Drugs + Your Body: It Isn't Pretty posters



Mind Matters series

Order today at teens.drugabuse.gov/order by March 16.



Use NIDA's Planning Toolkits and Online Resources

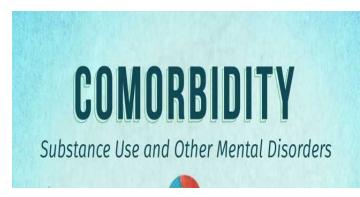


Toolkits for specific topics include:

- Tobacco, e-cigarettes, and vaping
- Opioids and other prescription drugs
- Alcohol
- Marijuana
- Comorbidities

Toolkits include:

- Activity ideas and games
- Infographics, blog posts, and multimedia resources
- The latest youth substance use data from the annual Monitoring the Future survey







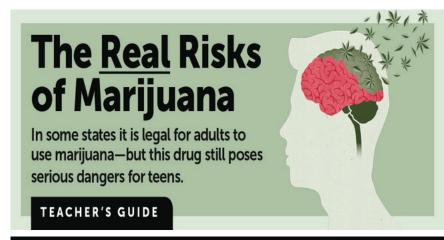


Tools for Educators



- More than 100 lessons and activities
- Many developed in partnership with Scholastic
- Search by:
 - Drug type
 - Grade level
 - Classroom subject
- New lesson plan on analyzing drug-use data from Monitoring the Future

Find lesson plans and activities at teens.drugabuse.gov/teachers/lessonplans.







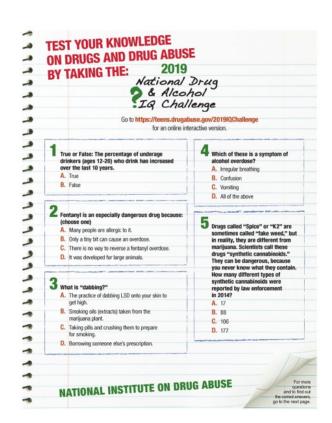


Make It Interactive









Play BINGO to reinforce vocabulary.

Play this *Jeopardy*-style game.

Use the National Drug & Alcohol IQ Challenge as a quiz or trivia game.



Get Your Event on the Map!





Almost 2,000 Events Worldwide



NIDA Is Here to Help



NIDA is at your service! We can:

- Help you generate ideas, register for, and plan your event.
- Connect you with a scientist.
- Provide the materials you might need.

Email Brian Marquis at drugfacts@nida.nih.gov.

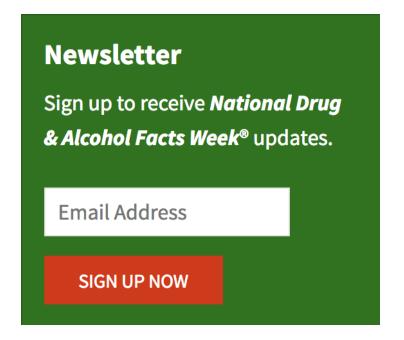
Mark your calendar for March 30 to April 5, 2020. Visit teens.drugabuse.gov/register.

Follow NIDA on social media and use #NDAFW in your posts!











Taking Lessons to Practice: Implementing Prevention Lessons

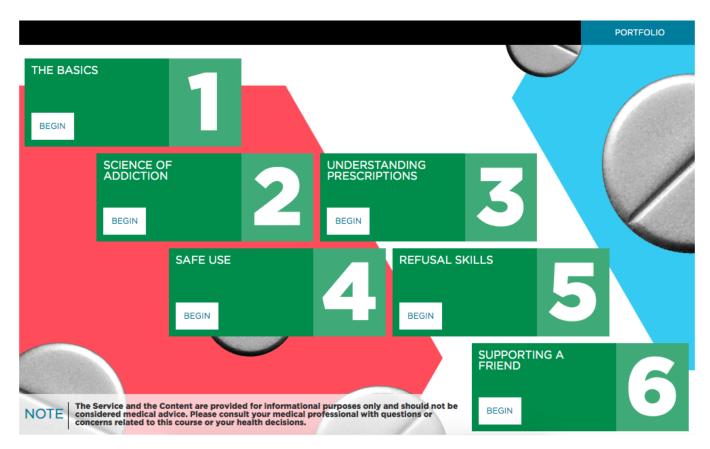
Kimberley Timpf and Lauren Pingul

Implementation Strategies





Prescription Drug Safety

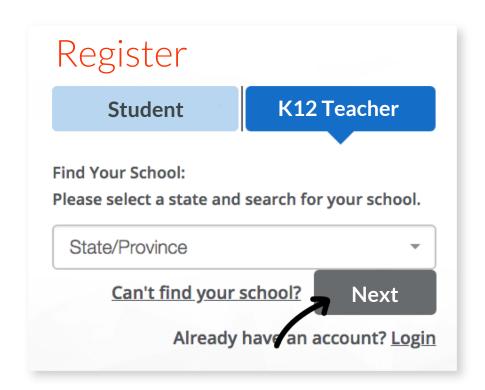




Register

everfi.com/newteacher

- Find Your State
- Enter Your School





Next Steps

Learn

Visit everfi.com/PDS to review Rx drug safety lessons.

Visit everfi.com/k12-courses to review all offerings.

Get Started

Register for an account at www.everfi.com/
newteacher

Plan your NDAFW lessons

Share

Share with colleagues

Share about your class on social media - tag @EVERFIK12 and/or use #EVERFlempowers

