

WELCOME TO:

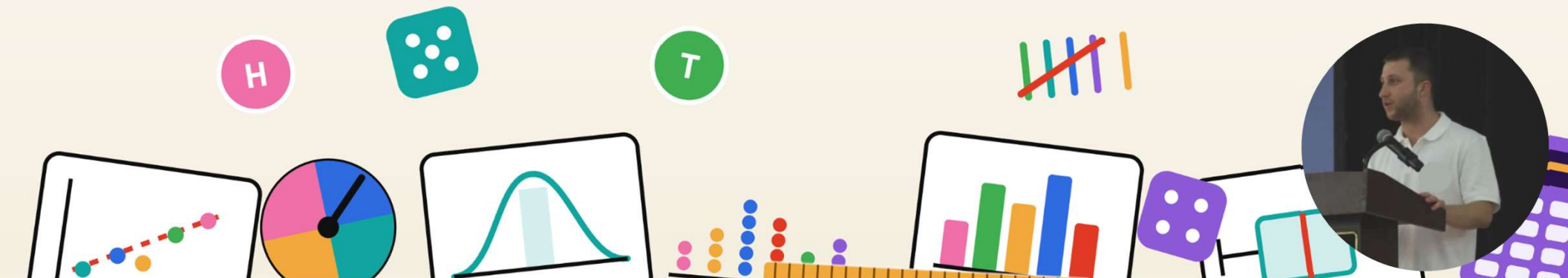


AP STATISTICS



Don Soffer Aventura High School

Mr. Levy



Get to Know You

First Name: _____ Last Name: _____ Grade: 10 11 12

AP Stats Get to Know You Sheet!

How many AP Exams have you taken? _____ Dream College/University: _____

Favorite Animal: _____ Dream Job: _____

Are you involved in any school sports or hold leadership positions in any student organizations? If so, which:

Fun Fact / Special Talent:

What has been your favorite high school class (so far) and why?

What (if anything) have you heard about this course (or statistics in general)? (positive or negative)

What's your favorite number and why?

If you had one wish, what would you use it on?

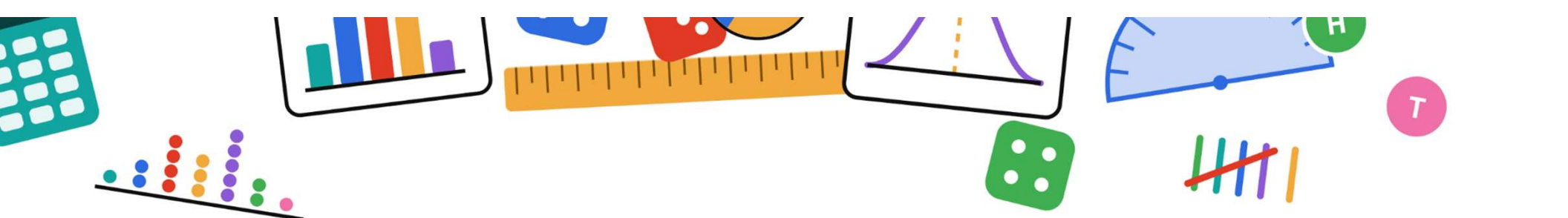
Is there anything you want me to know about you (as a student or a human being)?

Do you have any questions for me?

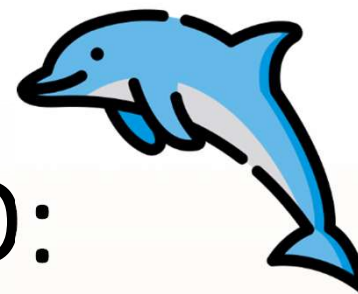
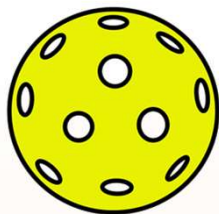
If you finish early, please write your favorite "dad-joke" on the back of this sheet.
Must be appropriate. Winning jokes (funniest) will be announced sometime soon.

DON SUTTER
AVENTURA
HIGH SCHOOL

- Take a few minutes to fill out the sheet.
- Make sure to include anything you think would be helpful for me to best help you learn this year.
- Correction: For AI: Maybe the coolest thing you've used it for to date.
- **P2: I will be handing out your official schedules while you do this.**



ATTENDANCE



WELCOME TO: AP STATISTICS

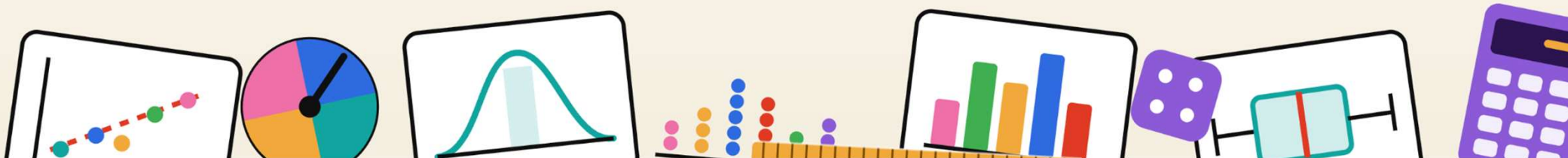
Don Soffer Aventura High School

Mr. Levy



***Disclaimer: I am the worst with names and faces and it will take me a few weeks to learn them all.**

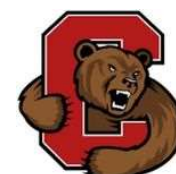
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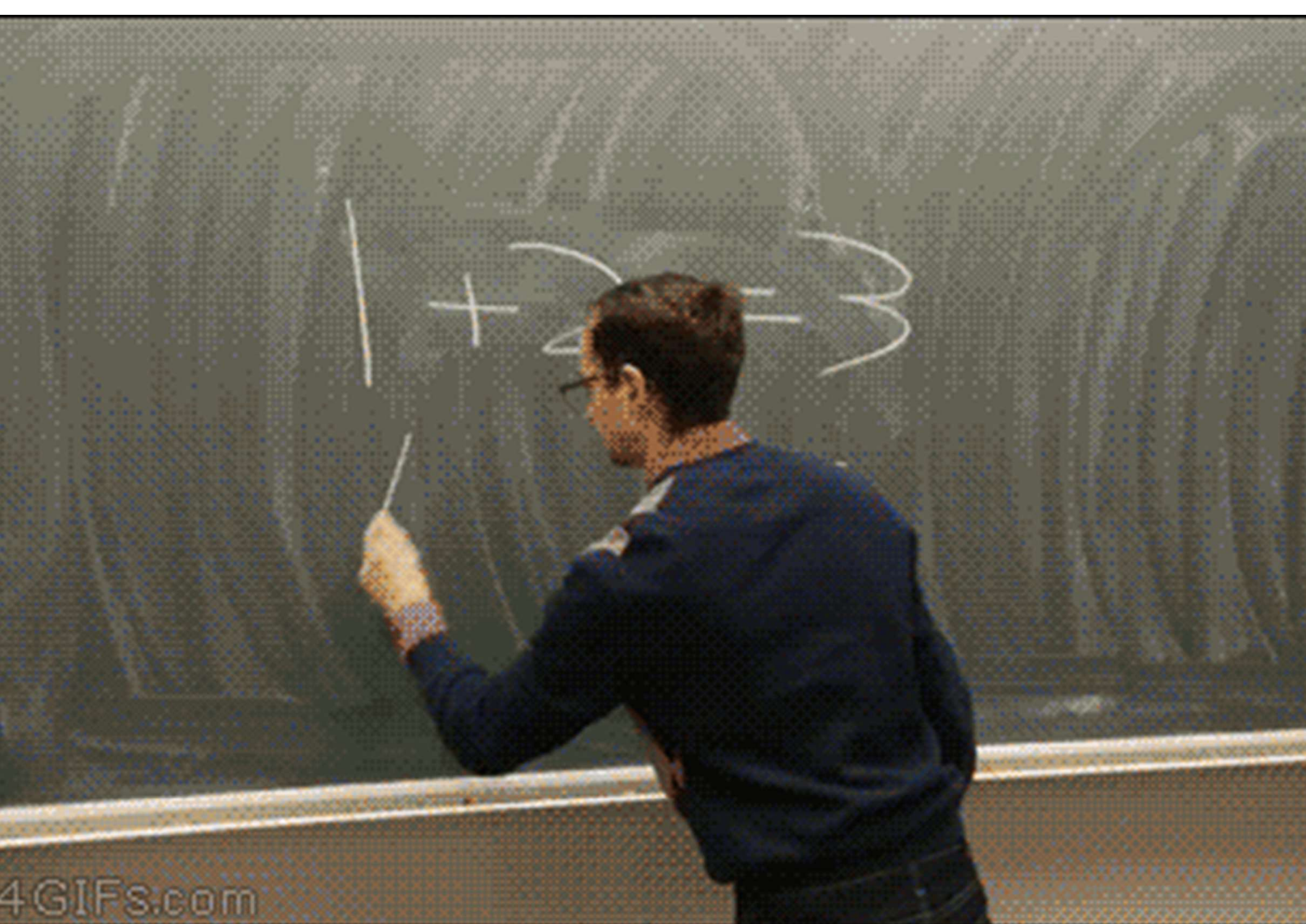


AP Statistics

A Break Down

- **AP** means college:
 - course, credit, work, mentality & expectations
- **Statistics** means:
 - the science and art of collecting, analyzing, and drawing conclusions from data
 - learning to evaluate decisions that affect your life
 - ~~regular math~~
 - data, graphs, decisions, interpretation, reasoning
 - statistics is it's own very exciting world!
 - you must be (willing to get) good at writing





When you look away for a second during class. . .

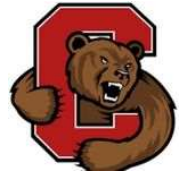
AP Statistics

A Break Down

- Myth: *"AP Stats is a super easy A"*
- Reality: *"Stats is a fairly difficult college course required by nearly all majors. It starts out easy, and picks up pretty quickly. The credit is definitely worth the effort."*
- Benefits:
 - Data is everything in an AI world

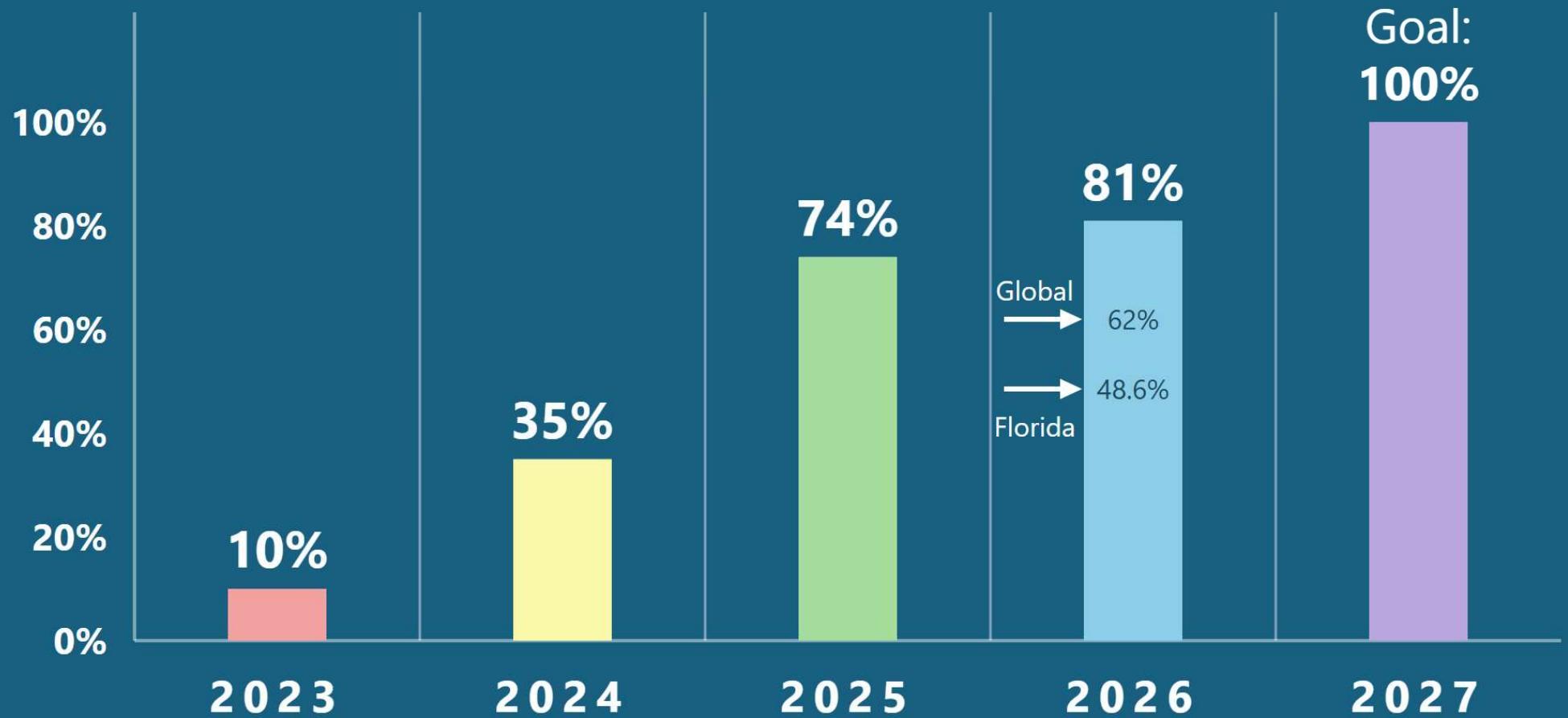
Mr. Levy: sorry for dropping your class, it wasnt you
it was the work LOL ♡ - [REDACTED]

- Gateway to some of the highest paying careers
- CANDY!



AP EXAM PASS RATE

DON SOFFER HS



New Year. New course. Same standard: EXCELLENCE

THE FORMAT

PAPER → DIGITAL

every response typed in Bluebook

THE EXAM

6 → 4

Fewer FRQs, More MCQs

THE COURSE IN UNITS

9 → 5*

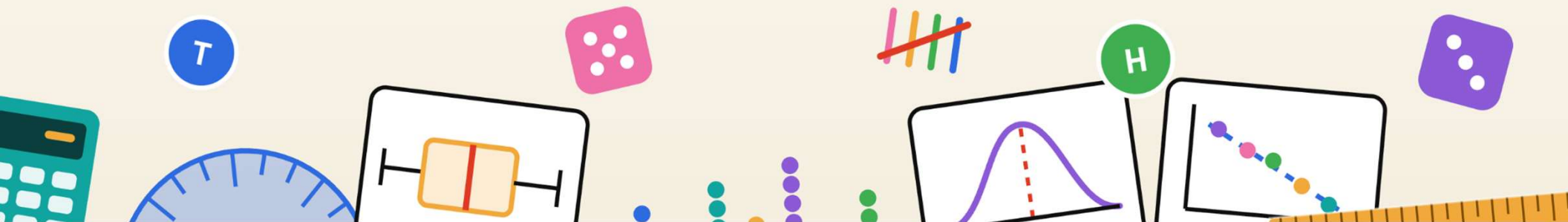
Fewer units, but significantly longer

THE TOPICS

4 OUT • 2 IN

Completely different order!

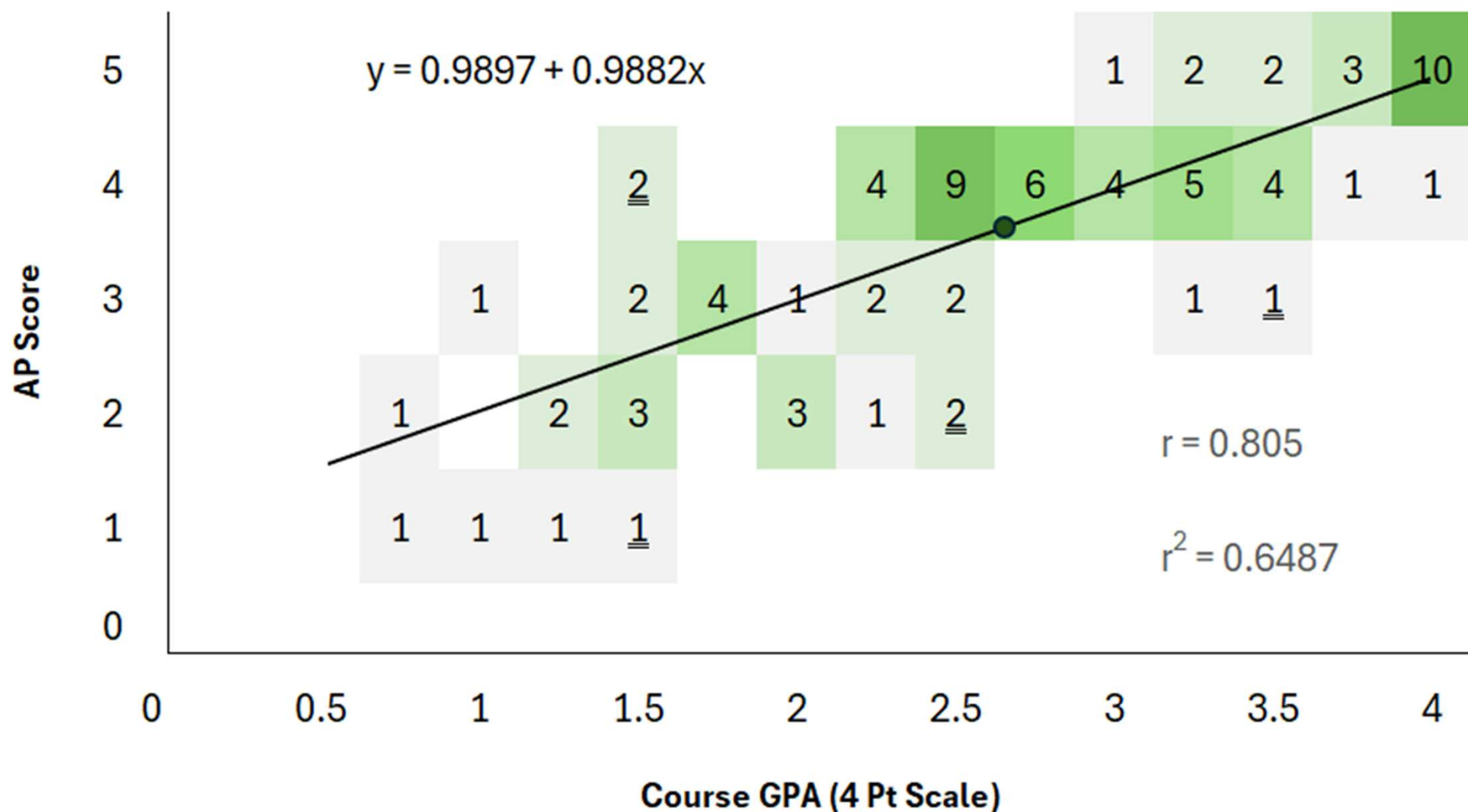
NOT CHANGING: the rigor · the writing · the expectations



Research Questions

- What is the average GPA of incoming seniors at Don Soffer?
- What is the typical time spent in line to purchase lunch in the cafeteria?
- What is the median amount of time Don Soffer students spend on social media each day?
- Is there a correlation between combined family income and SAT score?
- What is the effect of class size on student performance in math?
- Do students who use AI on homework score higher or lower on tests they take without it?
- Is one medication more effective at treating an illness than another?

Course Grade vs. AP Score



The following people should avoid this class:

- Anyone who plans to have inconsistent attendance (T / ER)
- People who are used to turning in late work / having missing assignments
- People who want a grade they aren't willing to work for
- People who have relied on cheating to get through prior courses
- People who make it hard for other people to reach their potential
- Anyone not genuinely interested in earning college credit for AP Statistics
- Anyone who took it because it's "so much easier now!"

Unit 3: Choosing the Sample Size

Problem: A company has received complaints about its customer service. The company managers intend to hire a consultant to carry out a survey. Before contacting the consultant, the company manager wants to know the sample size that she will be required to take. She knows that the proportion p of customers who are satisfied with the service is unknown. She decides that she wants to estimate the proportion p with a margin of error of 0.03 at a 95% confidence level. How many customers should be surveyed?

**I will teach you the statistics.
You are assumed to know the math.**

$$1.96 \sqrt{\frac{0.5(1 - 0.5)}{n}} \leq 0.03$$

Distribute Syllabus & Collect Info Sheets

AP Statistics – Don Soffer Aventura High School Course Syllabus, Mr. Levy, 2024-2025

Contact Information / Office Hours

Contact Info:

Email: joseph.levy@aventuracharters.org

Phone: (786) 481-3032 ext. 1406

The best way to contact me is via email.

Online information on slides and assignments is in our course on Schoology.

Office Hours:

I am generally not on campus during 7th and 8th period. I offer Office Hours at 3:30pm in my classroom twice a week after school (typically Tuesday's and Thursday's but I sometimes shift days to make sure I am available prior to quizzes and exams). It is always best to let me know you are coming so that I can prepare material for you and to avoid conflicts with school events that I try to support like DS Athletic competitions.

Course Description - based on the College Board's AP Statistics CED (Effective Fall 2020)

The AP Statistics course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes evident in the content, skills, and assessment in the AP Statistics course: exploring data, sampling and experimentation, probability and simulation, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding.

My goals for you:

At the end of this course, I want all students to...

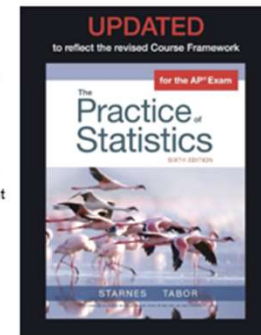
- 1) know how to correctly use a large number of statistical analysis mathematical procedures and tools.
- 2) have the ability to think critically and utilize these procedures and tools appropriately in order to analyze real-world information and to interpret and present meaningful results and conclusions which can be legitimately drawn from the information.
- 3) be prepared to do well on the AP Statistics & earn college credit

Textbook

We are using "Stats: The Practice of Statistics" by Starnes and Tabor for this course.

While we won't be using it for homework (we are using problem sets that will be posted on Schoology and/or printed and distributed), this textbook has really excellent explanations and examples and a very conversational, easy to read tone. We have more than enough to use in class. You should not need a copy of the textbook at home but are welcome to check one out should you want one.

While I will be covering the main ideas during our classroom lessons for some topics the textbook will go into more depth and provide additional information that you may wish to read about, especially if you are trying to achieve a '5' on the AP Statistics Exam.



Additional Resources for Self-Study and/or Review

Khan Academy

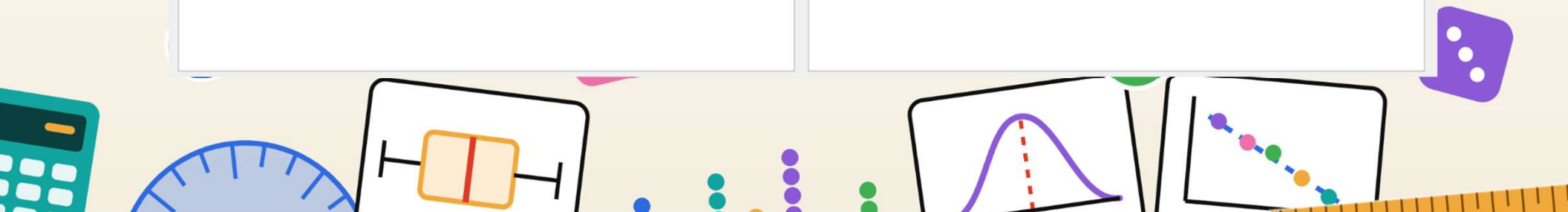
There are video lessons and sample questions for most topics assessed on the AP Exam. Make sure to check out videos for questions you are missing so you understand the reasoning behind the correct answers. This way, you'll not only succeed when you see identical or close-to-identical question - but questions on related content.

AP Classroom

This resource is provided directly by the College Board. There are video lessons on all topics that should be covered on the AP Exam recorded by expert AP teachers and AP Exam graders. If you are not satisfied with an explanation from Khan Academy (they tend to be more simple), please check out the associated topic on AP Classroom or send me an email so I can get you a more in-depth explanation.

Stats Medic

Stats Medic maintains a catalog of released past FRQs by topic that can be used to practice throughout the course and specifically ahead of exams. All FRQs should have associated solutions and scoring guidelines accessible via the College Board Website.



For Tomorrow

- Homework:
 - Prerequisite Math – Part 1
 - Bring back the signed syllabus
 - Have a GREAT 1ST DAY!

