

“ If you do  
not change  
direction,  
you may end  
up where  
you are heading. ”

Lao Tzu

# Inside the Redesigned SAT



**Ben Yarin**  
**Jack Friedman**  
**Study Smart Tutors Inc**



# TRiO

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National  
College  
Access  
Network

## GEARUP



RIGHT CHOICES FOR YOUTH









# Question

How many points on the SAT or ACT make the difference between a student being accepted or rejected from a certain university?



**Answer**

**30 points**

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THE REDESIGNED

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SAT<sup>®</sup>

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The first administration of the redesigned SAT® will be in spring 2016.

The redesign primarily impacts those enrolling in college in fall 2017.

Today's ninth graders will be the first to take the redesigned SAT.

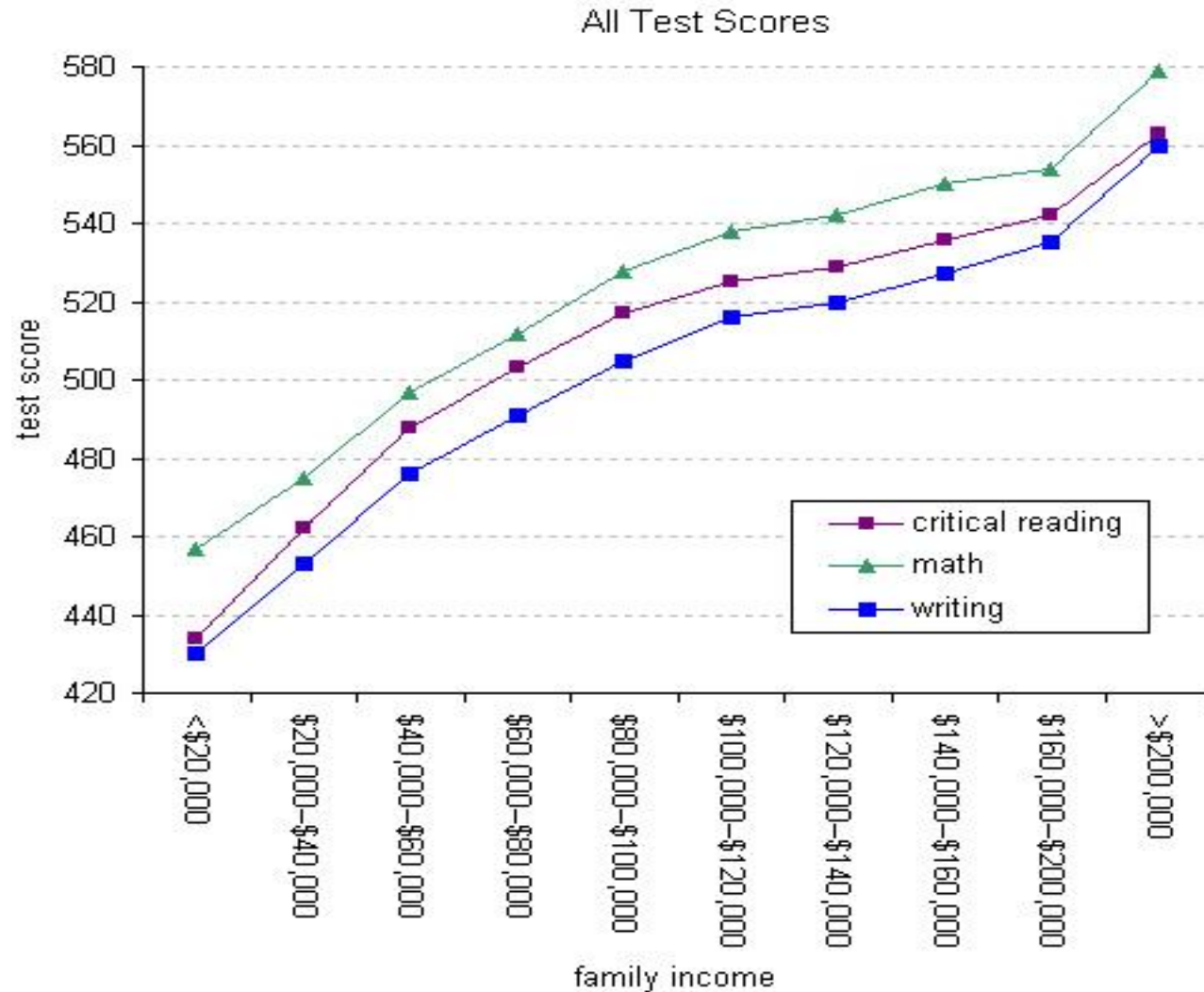
Why?

A close-up, slightly blurred photograph of two yellow wooden pencils. The pencil in the foreground is angled from the bottom left towards the top right. It has the words "ACT or SAT" printed in blue capital letters. To the right of this text, the letters "HB" are also visible. In the background, another yellow pencil is partially visible, also with "ACT" printed on it. The background is out of focus, showing hints of a blue and white grid pattern.

ACT or SAT HB

# Competition

# Opportunity Gap





WHAT'S  
NEXT?



## Timeline for SAT-ACT Changes

December  
2014

Practice  
PSATs  
released

March  
2015

Practice  
SATs  
released;  
College  
Board  
book to  
follow

Spring/Fall  
2015

Digital  
ACT and  
ACT  
changes

October  
2015

New PSAT  
for Class  
of 2017  
and 2018

January  
2016

Final old  
SAT

March  
2016

New SAT  
released  
First digital  
SAT

Class of 2017 (rising sophomores) will straddle the old and new SAT. Many will take practice exams to determine their optimal test.



**Old vs. New**

Current vs. New SAT		
Category	Current SAT	New SAT
Testing Time	3 hours and 45 minutes	3 hours 50 min optional essay
Components	<ul style="list-style-type: none"> <li>• Critical Reading</li> <li>• Writing</li> <li>• Math</li> <li>• Essay</li> </ul>	<ul style="list-style-type: none"> <li>• Evidence-Based Reading and Writing</li> <li>• Math</li> <li>• Essay (Optional)</li> </ul>
Essay	<ul style="list-style-type: none"> <li>• 25 min at the beginning</li> <li>• students must take a position on a presented issue</li> </ul>	<ul style="list-style-type: none"> <li>• 50 min, at the end</li> <li>• students produce a written analysis of a provided source</li> </ul>

Current vs. New SAT		
Category	Current SAT	New SAT
<b>Score Reporting</b>	Total score ranges from 600 to 2400	<ul style="list-style-type: none"> <li>• Total score ranges from 400 to 1600 points</li> <li>• The essay is scored on a 2 to 8 point scale</li> <li>• Essay results are reported separately</li> </ul>
<b>Subscore Reporting</b>	None	Subscores will be provided for each section of the test

# SCORING



## INCORRECT ANSWERS

### CURRENT SAT

"Scoring deducts points for incorrect answers. Students get  $\frac{1}{4}$  point deducted for incorrect answers; no points deducted for omitted answers."



### REDESIGNED SAT

Scoring does not deduct points for incorrect answers. Students are encouraged to select the best answer to every question.

## SCALE

### CURRENT SAT

Score Scale of 2400.



### REDESIGNED SAT

Score Scale of 1600 with separate score for essay.





**KEEP  
CALM  
AND  
TAKE A  
GUESS**

Current SAT			Redesigned SAT		
Component	Time Allotted (minutes)	Number of Question/ Tasks	Component	Time Allotted (minutes)	Number of Questions/ Tasks
Critical Reading	70	67	Reading	65	52
Writing	60	49	Writing and Language	35	44
Essay	25	1	Essay (optional)	50	1
Mathematics	70	54	Math	80	57
Total	225	171	Total	180 (230 with Essay)	153 (154 with Essay)



# Redesigned Math

$$\text{Math Anxiety} = \text{Test Anxiety} \left( \text{Fear of numbers} + \text{Fear of unknown} \right)$$

Redesigned SAT		
Time Allotted	Amount	% of Test
<b>Total</b>	80 minutes	100%
<b>Calculator Section</b>	55 minutes	69%
<b>No-Calculator Section</b>	25 minutes	31%

# No Calculator Section

$$4x - y = 3y + 7$$

$$x + 8y = 4$$

Based on the system of equations above, what is the value of the product  $xy$ ?

A)  $-\frac{3}{2}$

B)  $\frac{1}{4}$

C)  $\frac{1}{2}$

D)  $\frac{11}{9}$

# Redesigned Math

The toll rates for crossing a bridge are \$6.50 for a car and \$10 for a truck. During a two-hour period, a total of 187 cars and trucks crossed the bridge, and the total collected in tolls was \$1,338. Solving which of the following systems of equations yields the number of cars,  $x$ , and the number of trucks,  $y$ , that crossed the bridge during the two hours?

A)  $x + y = 1,338$   
 $6.5x + 10y = 187$

B)  $x + y = 187$   
 $6.5x + 10y = \frac{1,338}{2}$

C)  $x + y = 187$   
 $6.5x + 10y = 1,338$

D)  $x + y = 187$   
 $6.5x + 10y = 1,338 \times 2$

The function  $f$  is defined by  $f(x) = 2x^3 + 3x^2 + cx + 8$ , where  $c$  is a constant. In the  $xy$ -plane, the graph of  $f$  intersects the  $x$ -axis at the three points  $(-4, 0)$ ,  $(\frac{1}{2}, 0)$ , and  $(p, 0)$ . What is the value of  $c$ ?

- A) -18
- B) -2
- C) 2
- D) 10

# ***What obstacles will our students face?***



# No-Calculator Section

Element	Redesigned SAT			
Question Type	#	Points	Total Points	% of Test
Multiple Choice (4 options)	15	1	15	75%
Student-Produced Response (grid-in)	5	1	5	25%
Content Categories				
Total	20		20	100%
Heart of Algebra	8	1	8	40%
Passport to Advanced Math	9	1	9	45%
Additional Topics in Math	3	1	3	15%
Time Allocated	25 minutes			



# Redesigned Reading/Writing



# The SAT:

## Old vs. New

### Old (Current)

The consumer advocate claimed that while drug manufacturers \_\_\_\_\_ the supposed advantages of their proprietary brands, generic versions of the same medications are often equally \_\_\_\_\_.

- (A) tout . . efficacious
- (B) research . . innocuous
- (C) market . . prohibitive
- (D) laud . . counterproductive
- (E) extract . . prescriptive

### New (2016)

[. . .] As Kingman developed as a painter, his works were often compared to paintings by Chinese landscape artists dating back to CE 960, a time when a strong tradition of landscape painting emerged in Chinese art. Kingman, however, vacated from that tradition in a number of ways, most notably in that he chose to focus not on natural landscapes, such as mountains and rivers, but on cities. [. . .]

(The following question relates to the underlined portion in the excerpt above.)

- (A) NO CHANGE
- (B) evacuated
- (C) departed
- (D) retired

INFOGRAPHIC BY JOHN WEI  
SOURCE: COLLEGEBOARD



# Founding Documents



Use a mechanical pencil. It is  
to change your responses,  
not your score.

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# 1 ESSAY 1

Time — 25 minutes

Turn to page 2 of your answer sheet to write your ESSAY.

The essay gives you an opportunity to show how effectively you can develop and express ideas. You must care to develop your point of view, present your ideas logically and clearly, and use

Your essay must be written on the lines provided on your answer sheet. You will have enough space to write on every line. Remember that people who read your essay must be able to understand what you are writing is legible to the reader.

Important:

If you do not write an essay, you will receive a score of zero. If you write an essay, you will receive credit only for what you write on your answer sheet.

If you receive a score of zero,

your scores for the entire test may be canceled. An electronic copy of your essay will be made available to each of your designated score recipients: colleges, universities, and scholarship programs.

You have twenty-five minutes to write an essay on the topic assigned below.

Think carefully about the issue presented in the following excerpt and the assignment below.

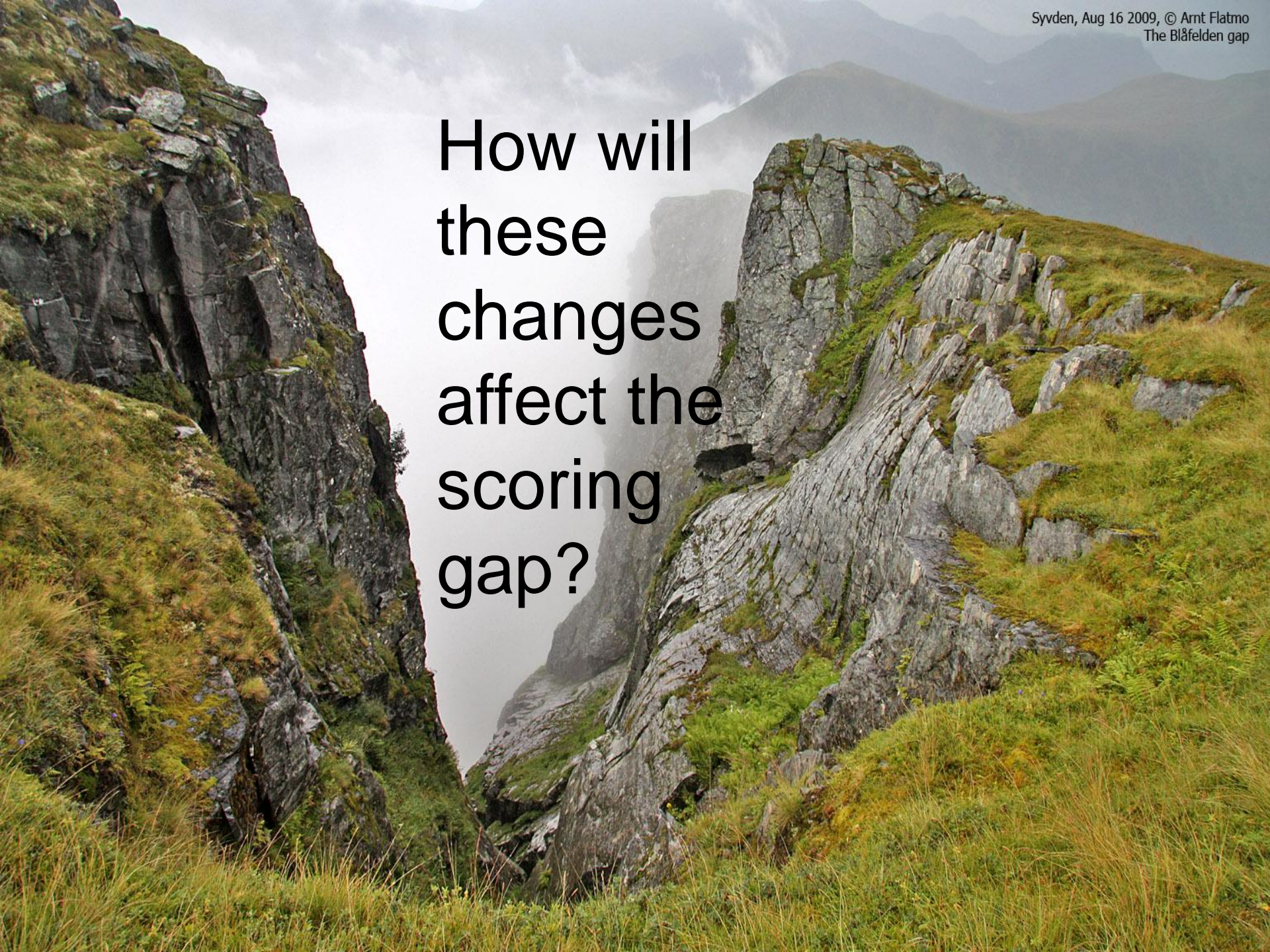
A colleague of the great scientist James Watson remarked that Watson was always "lounging around, arguing about problems instead of doing experiments." He concluded that "There is more than one way of doing good science." It was Watson's form of idleness, the scientist went on to say, that allowed him to solve "the greatest of all biological problems: the discovery of the structure of DNA." It is a point worth remembering in a society overly concerned with efficiency.  
Adapted from John C. Polanyi, "Understanding Discovery"



**Your  
biggest  
challenge?**



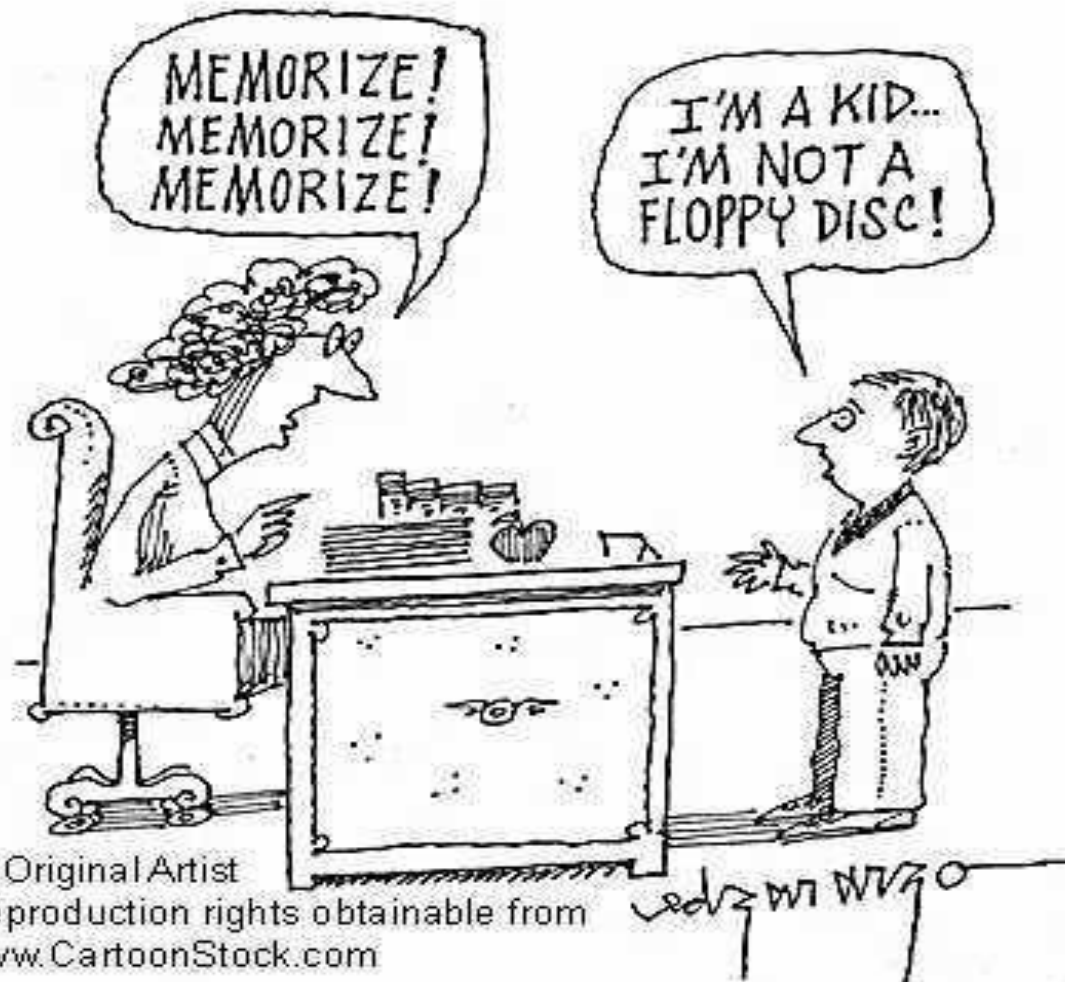




How will  
these  
changes  
affect the  
scoring  
gap?



# A Big Problem....



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search ID: ear0958



# What We Should Be Doing Now...



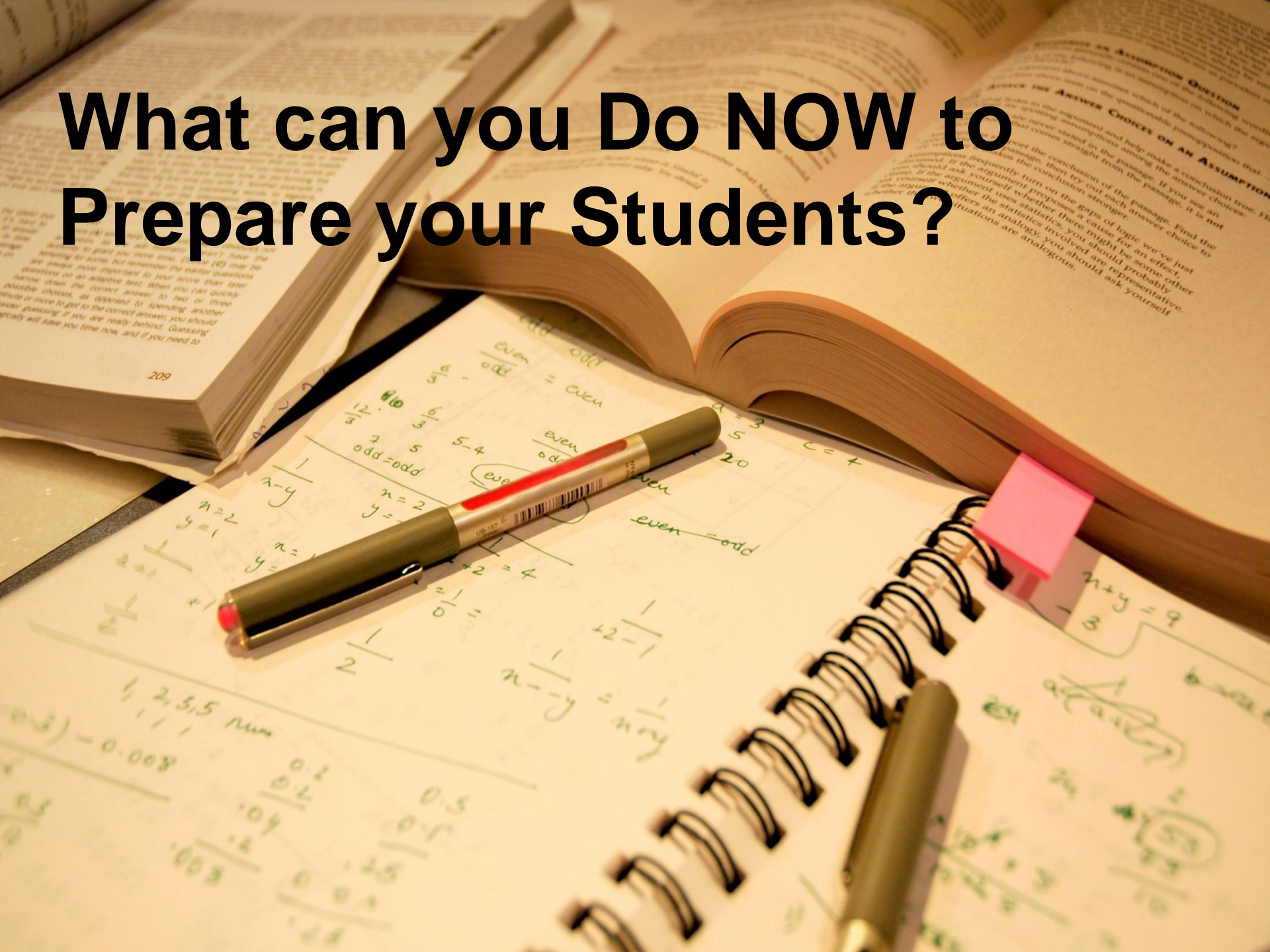
My role

is

\_\_\_\_\_



# What can you Do NOW to Prepare your Students?



# Building Foundation Skills NOW





Start small, but dream **BIG**



# Outsmarting Standardized Tests



## Example

*19. Cindy walked to work at an average speed of 6 miles an hour and biked back along the same route at 10 miles per hour. If her total traveling time was 2 hours, how many miles is the distance from her house to work?*

- (A) 6
- (B) 6.25
- (C) 7.5
- (D) 8
- (E) 10

**“Everyone’s  
got a plan**



**Until they  
get hit.”**

**-Mike Tyson**



A low-angle, close-up shot of a person's legs running on a grassy field. The person is wearing dark leggings and white sneakers with black stripes. The background is a blurred grassy area with some trees in the distance. The text "NEXT STEPS" is overlaid in the center of the image.

**NEXT STEPS**

# Customized Service



# What We Offer

## Staff

- SAT/ACT Training
- Test Foundations Training
- Customized Lesson Plans

## Students

- Saturday Academy Courses
- Summer Programs
- After School Classes

## Parents

- PSAT for Parents
- Supporting Your Child for Test Success



# Discussion

- In your IDEAL world, what tools would your students bring to the SAT and ACT?
  - What steps will I take to get them there?

# Staff Training and Materials

**Engage your students with interactive materials**

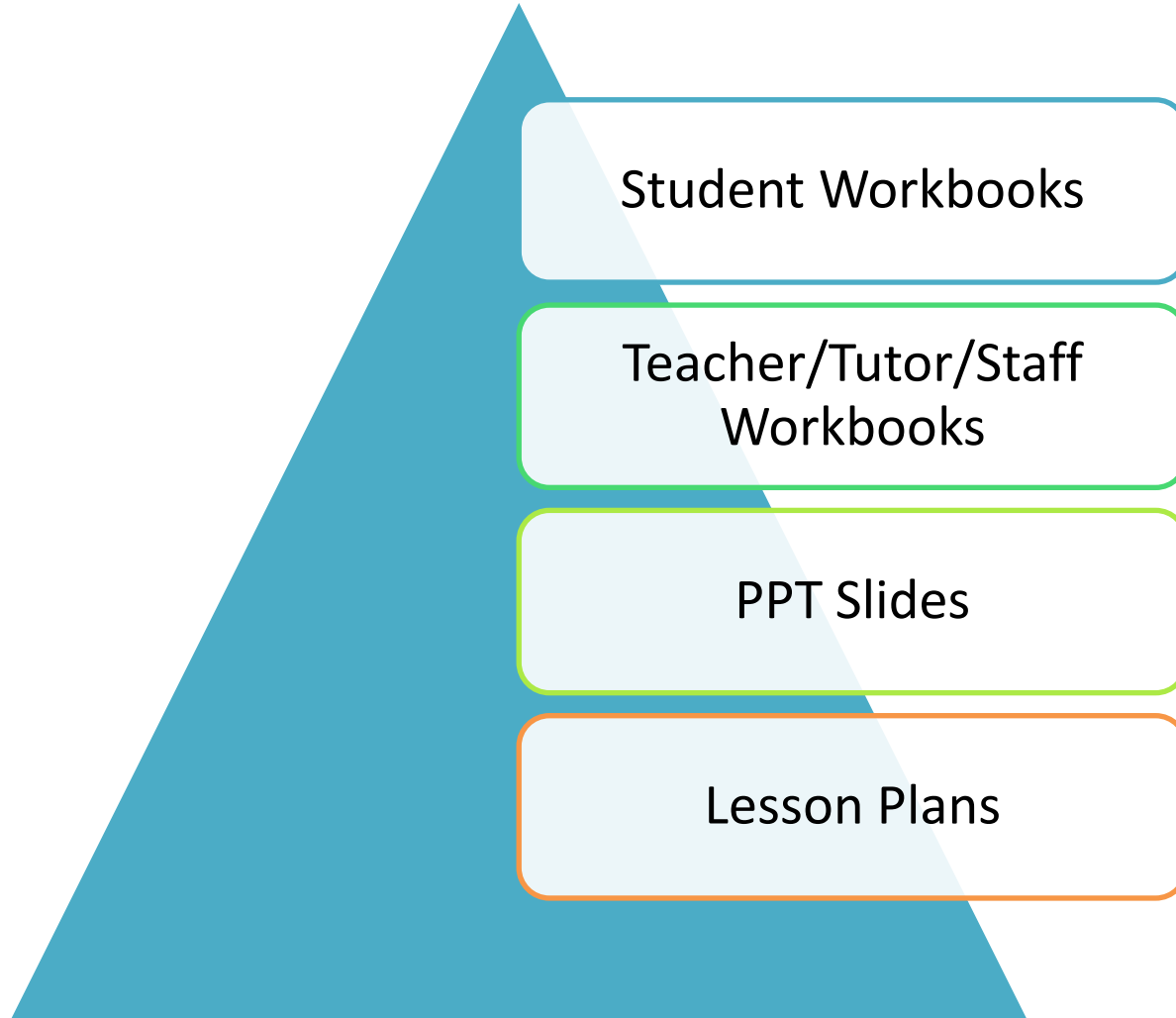


**Customize based on schedule and needs**



**Build capacity amongst your team**

# Custom Built Materials



# Your Custom Quote

To submit your information for a custom quote,  
please visit our website!

Student Class Inquiry

<http://studysmarttutors.com/student-class-contact-form/>

Staff Training Inquiry

<http://studysmarttutors.com/staff-training-contact-form/>



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# Recent ACT Results

<b>Description <i>N=55</i></b>	<b>Pre-Test</b>	<b>Post-Test</b>	<b>Change</b>
<i>After 6-hours of ACT Prep</i>	16.1	17.8	<b>+1.7 points</b>
<i>After 16 hours of ACT Prep</i>	16.1	18.9	<b>+2.8 points</b>
<i>After 20-hours of ACT Prep</i>	16.1	19.4	<b>+3.3 points</b>