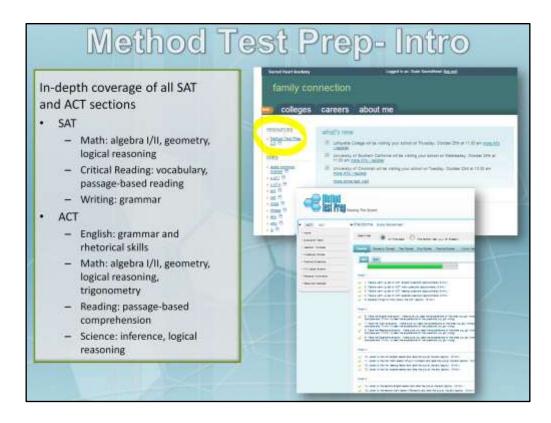
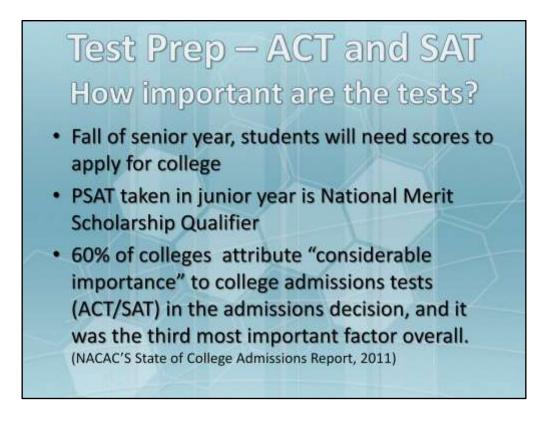


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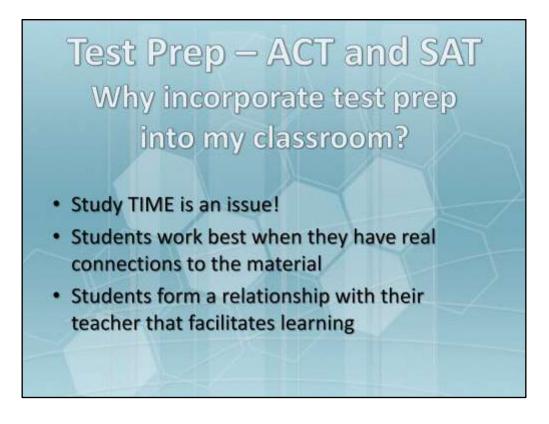




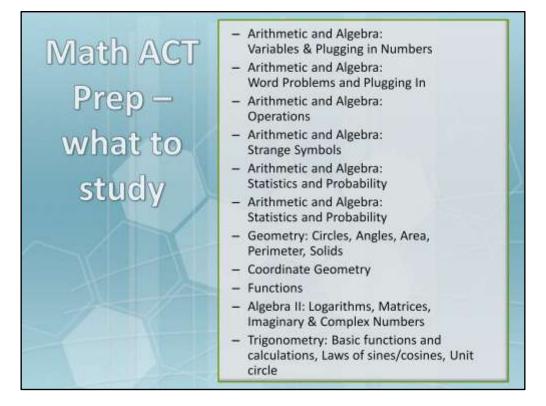


The College Counselors strongly suggest that juniors take two standardized tests during junior year. An ACT and SAT and or two ACT tests. Depending on scores, you may then be finished with testing.

· · ·		
Test & Date	Recommended Start Month	 Recommendation: two standardized tests in junior year
November SAT	Sep	Practice tests such
January SAT	Oct-Nov	as the EXPLORE and
March SAT	Dec-Jan	PLAN may start as
April ACT	Jan-Feb	soon as 8 th or 9 th
May SAT	Mar	grade
June SAT/June ACT	Apr	



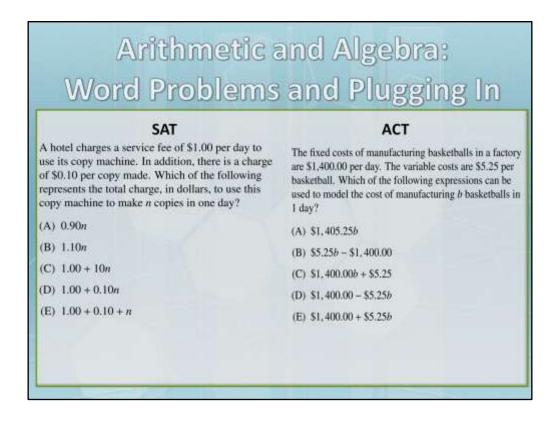
- One of the biggest reasons that students don't prepare for the ACT or SAT is because they don't have the time. Setting aside time for studying is essential to scoring well. However, in addition to good scores, students need top grades and well-rounded student resume that requires plenty of extracurricular activities.
- In order for students to really learn, they need to form a connection to their work. A teacher-led online course gives students this connection to a human at the other end of the computer, and thus they are less likely to get lost in cyberspace.
- Students form a relationship with their teacher and have a picture of them in their minds and hear their voices, even while working remotely. They can then use this picture and voice of their teacher to develop the capacity to follow through on completing assignments while they work independently outside of class time.



SAT If x is divisible by 3 and y is divisible by 5	, which of
the following must be divisible by 15?	ACT
L xy	Which of the following is true for all consecutive integers
II. $3x + 5y$	m and n such that $m < n$?
III. $5x + 3y$	(A) m is odd
(A) I only	(B) n is odd
(B) III only	(C) $n - m$ is even
(C) I and II only	(D) $n^2 - m^2$ is odd
(D) I and III only	(E) $m^2 + n^2$ is even
(E) I. II, and III	

•**Strategy**: Plugging in Numbers – one of the most crucial techniques •Both problems, while ranked "medium" difficulty, can be solved easily by substituting appropriate numbers for variables

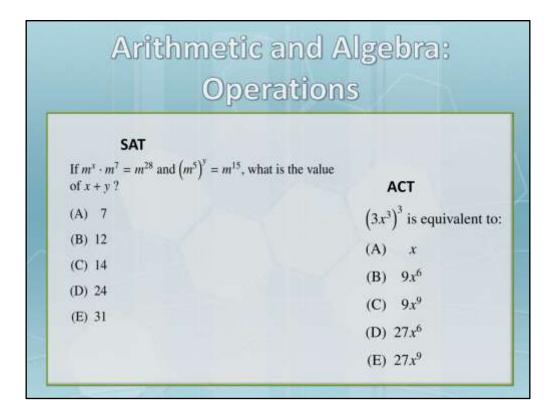
•Multi-case options are common on SAT, not on ACT



•Strategy: Plugging in Numbers for students with weaker algebraic reasoning skills

•"Easy" problems that should be givens for any student

•This kind of problem is common for SAT grid-in questions with definite numbers



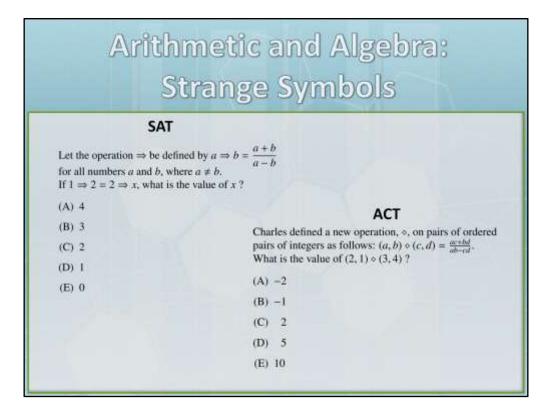
•ACT: straightforward – similar to quiz or homework problems

•SAT: problems require a combination of operations

•Technique: laws of exponents

•Exponents, FOIL & factoring, radicals & roots tested on both exams

•**Strategy example**: <u>always</u> factor difference of perfect squares



•Technique: use position as guide.

•Ex. The "stuff" on the left side of the arrow goes everywhere there is an *a* in the formula

•Emphasize similarity to functions

•Most students are thrown by "new" operations – they must know that all that is required is to follow directions

Statist	ics and Probability
SAT	
A bag contains only red mar	
yellow marbles. The probabi a red marble from this bag is	1
	The second
of randomly selecting a blue the following could be the to	
the bag?	ACT
(A) 10	An integer from 100 through 999, inclusive, is to b
(B) 12	chosen at random. What is the probability that the number chosen will have 0 as at least 1 digit?
(C) 18	(A) 19 100
(D) 20	(B) <u>31</u>
(E) 30	(C) $\frac{30}{100}$
	(D) 171 900
	(E) ²⁷¹ / ₁₀₀₀

•Technique: stress that total # of elements must be multiple of denominator(s)

•"Part / Whole" concept employed in simple and difficult situations

•Independent events, dependent events ("without replacement" problems)

Scherching	stice and Dropability
S/	stics and Probability AT se average (arithmetic mean) meter by doubling each
number in N . What is the set M ?	average of the numbers in
(A) $\frac{1}{3}$ (B) 2	Tom has taken 5 of the 8 equally weighted tests in his U.S. History class this semester, and he has an average
(C) 3	score of exactly 78.0 points. How many points does he need to earn on the 6th test to bring his average score up to exactly 80.0 points?
D) 6 (E) 9	(A) 90
(E) 9	(B) 88
	(C) 82
	(D) 80

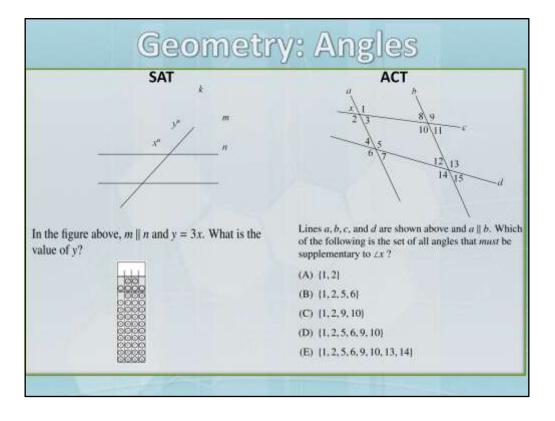
•**Technique**: students <u>must</u> write down the formula for arithmetic mean (Avg = sum of numbers / # of terms)

•**Strategy**: encourage students to create a small set of numbers to test when necessary (this is a very useful SAT strategy)

•**Strategy**: first, phrase everything in terms of the average equation; next, crossmultiply

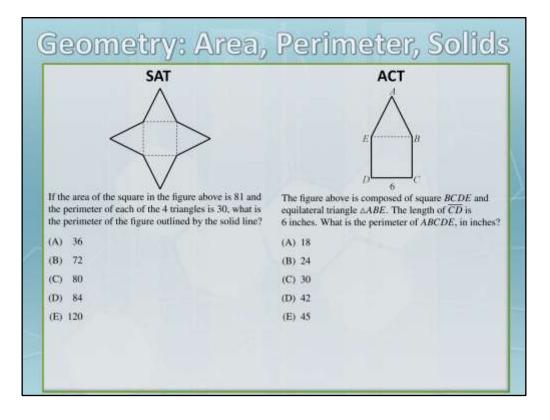
Geo	metry: Circles
SAT Q P 30 ^p R	
In the figure above, QR is the arc of center P . If the length of arc QR is 6 area of sector PQR ?	σ, what is the
(A) 108π	ACT
(B) 72π	A circular pool cover shown above has a radius of 4 meters and has two notches located at points A and B. If the distance
(C) 54π	between the notches is π meters, what is the measure of the angle marked θ ?
(D) 36π	(A) 15" T.B
(E) 9π	(B) 30°
	(C) 45°
	(D) 60°
	(E) 75°
1.10	

- •Technique: circle proportions and finding fractions of figures
- •Proportionality, application of formulas involved in both problems



•Parallel line geometry: supplements, corresponding, alternate interior, vertical angles

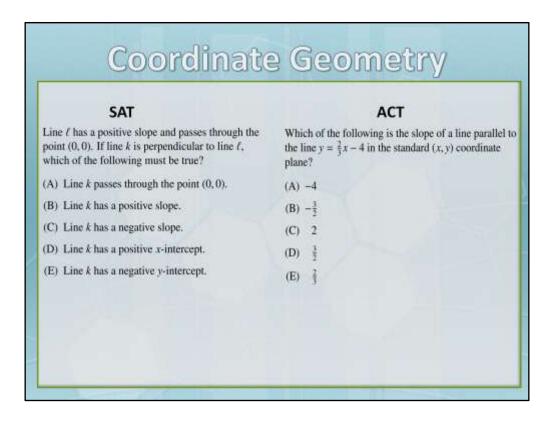
•Usually also appear in parallelograms and trapezoids (parallel sides/bases and supplementary consecutive angles)



•Students must integrate various principles of geometry in a single problem: area, perimeter, terminology: ACT more straightforward

•Technique: students MUST mark figure to maximum possible extent

•Common figures are quadrilaterals, right, isosceles, and equilateral triangles, circles, spheres, cubes, rectangular prisms

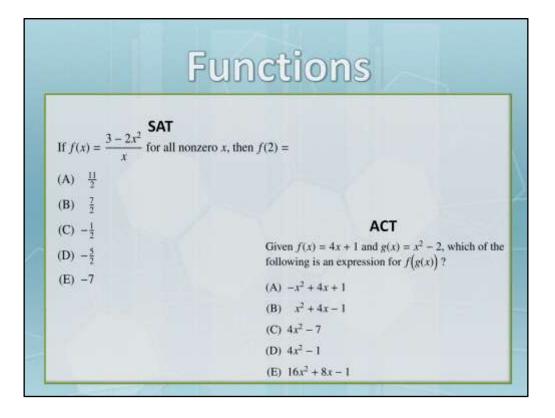


•Large emphasis on parallel/perpendicular slope relationships

•Substituting coordinates into equations to solve for unknown coordinates/slopes/intercepts

•Figures in the coordinate plane, especially circles and triangles

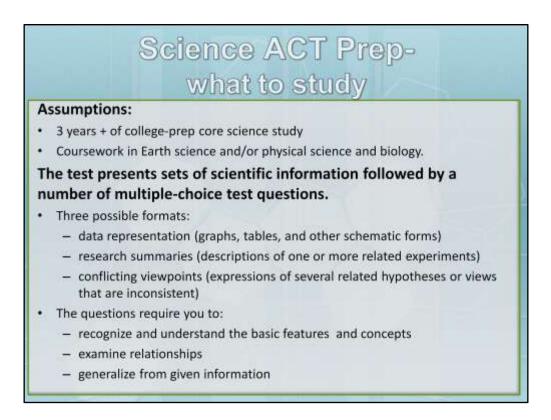
•**Technique**: students should be aware that if there is a question involving equations and points, they will need to plug coordinates into equations (students very typically forget they can do this)



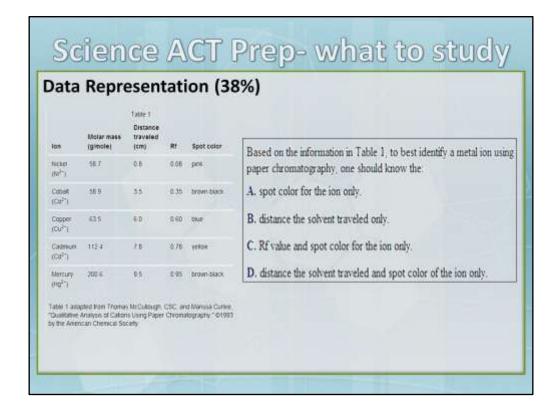
•SAT: understanding function notation & simple operations in both algebraic and graphical contexts (i.e. points, transformations)

•ACT: adds in composition of functions

•**Strategy**: make sure students know notation, understand that y=f(x)

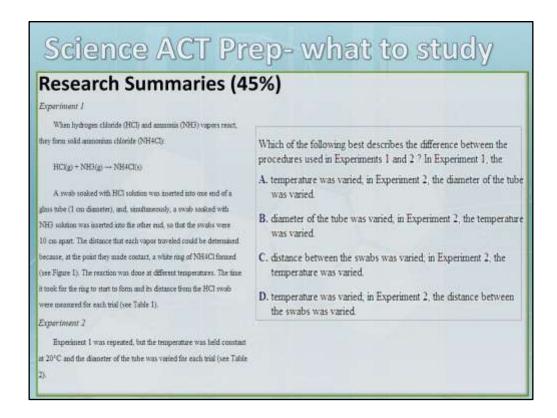


The content of the Science Test includes biology, chemistry, physics, and the Earth/space sciences (for example, geology, astronomy, and meteorology). Advanced knowledge in these subjects is not required, but background knowledge acquired in general, introductory science courses is needed to answer some of the questions. The test emphasizes **scientific reasoning skills** over recall of scientific content, skill in mathematics, or reading ability.



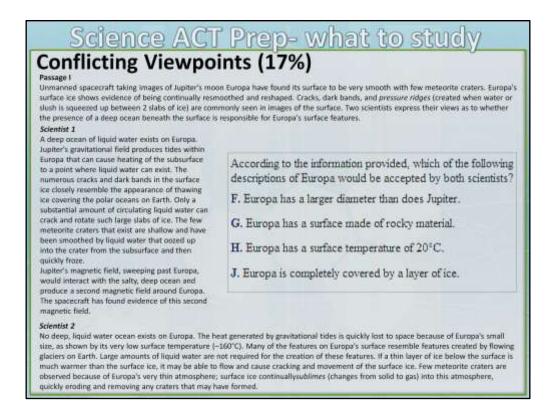
This format presents graphic and tabular material similar to that found in science journals and texts.

The questions associated with this format measure skills such as graph reading, interpretation of scatterplots, and interpretation of information presented in tables, diagrams, and figures.



This format provides descriptions of one or more related experiments.

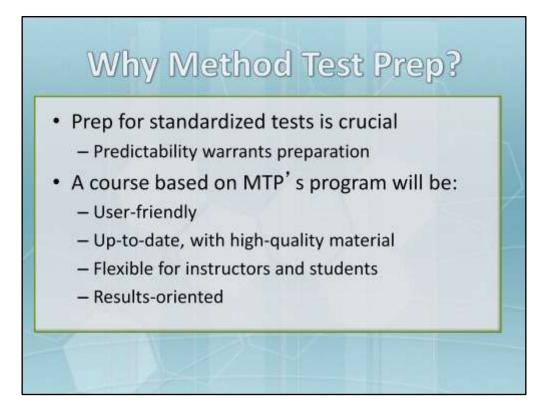
The questions focus on the design of experiments and the interpretation of experimental results.



This format presents expressions of several hypotheses or views that, being based on differing premises or on incomplete data, are inconsistent with one another.

The questions focus on the understanding, analysis, and comparison of alternative viewpoints or hypotheses.





With Method Test Prep students can:

- · Hear audio explanations of test questions
- · Access strategy guides for each test
- Complete full-length practice tests
- Receive hundreds of practice questions
- Read easy explanations to every question
- Track their strengths on each test
- · Receive valuable test-taking tips
- Take practice quizzes to boost their knowledge
- Access their courses on an unlimited, 24x7 basis, from any Web-enabled computer

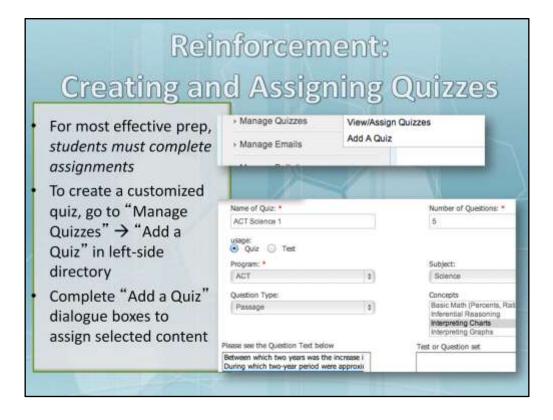
Method Test Prep

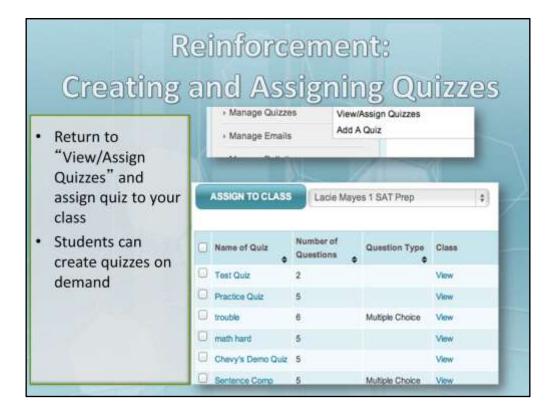
Student view

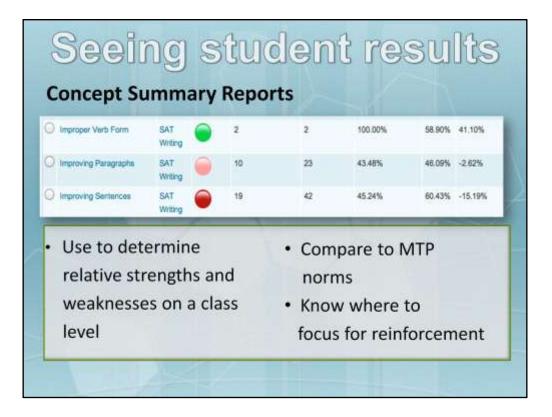
- Checklist
- Practice Questions
- Quizzes and Tests
- Audio/Video Explanations
- Seeing results/scores

Teacher view

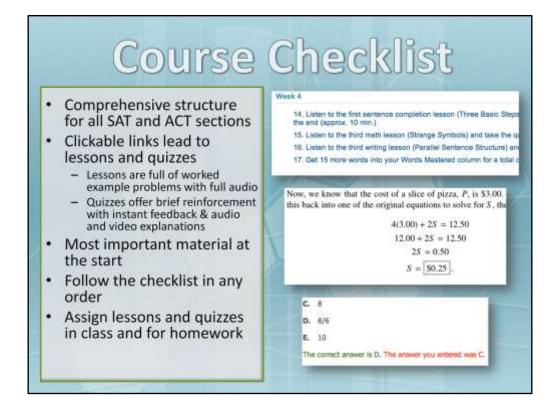
- Create a Class
- Create a Quiz
- Assign a Quiz
- Seeing student results/scores
- Lesson Plans
- Resource Materials

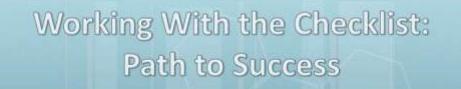




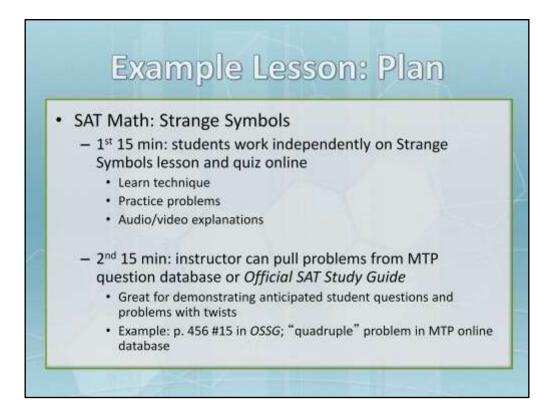


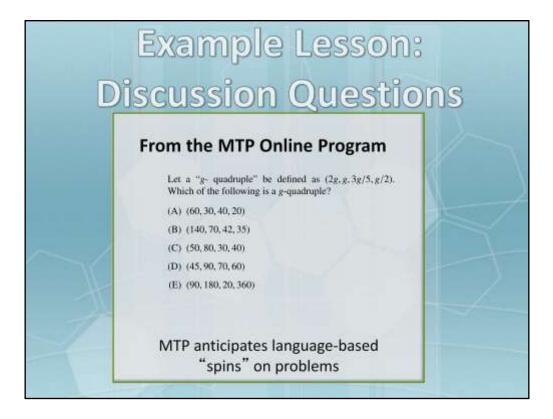
					• Monitor students' quiz scores, logins, words mastered, % correct, and						
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- Instructor may do a chalkboard mini-lesson or problem session based on the checklist lessons
 - Problems can be drawn from MTP' s Practice Questions section, or from books
 - SAT: The Official SAT Study Guide, 2nd ed.
 - ACT: The Real ACT Prep Guide, 3rd ed.
- Depending on school resources, class time can be split between board and computer work
 - Checklist assignments can be given by number







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