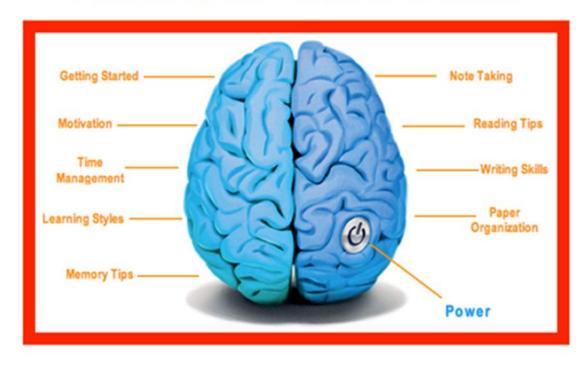
Study Smart: Study Strategically

Supporting Students' Academic Transitions to College

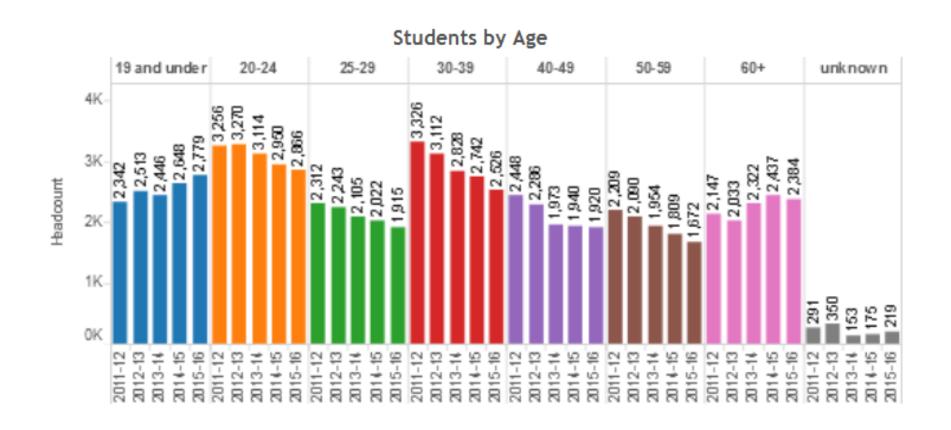
NEED HELP USING YOUR NECKTOP COMPUTER?



Overview

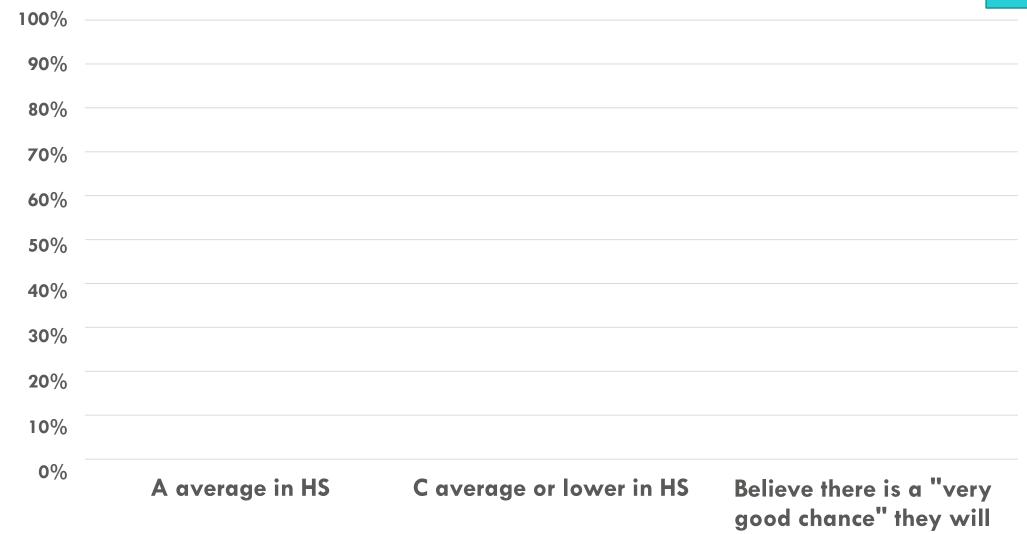


What Transitions?



Entering College Student Trends, 1968/71 vs. 2002





N = 350k entering college students

Source: Cooperative Institutional

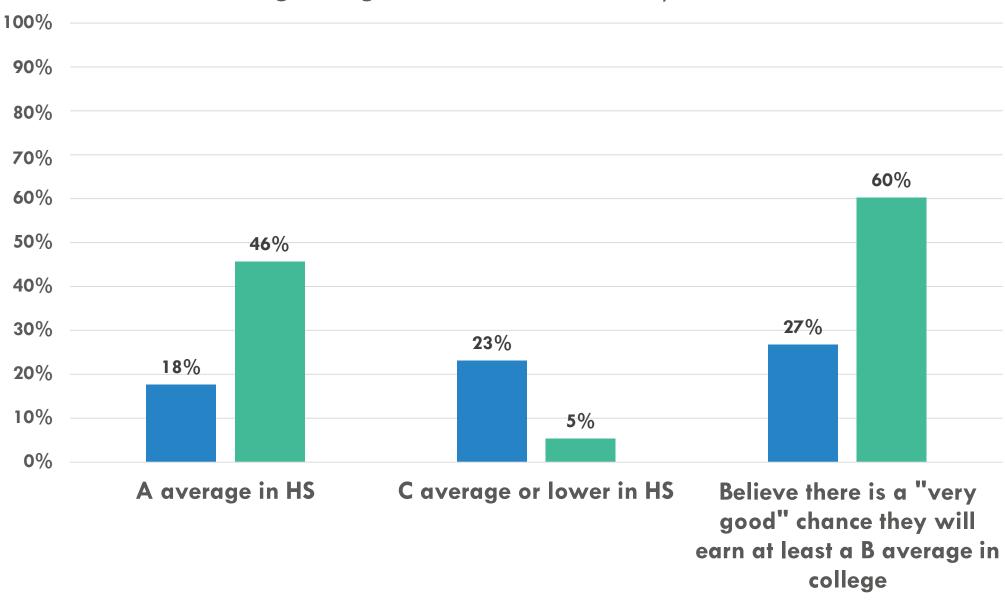
Research Program (CIRP)

■ 1968/71 ■ 2002

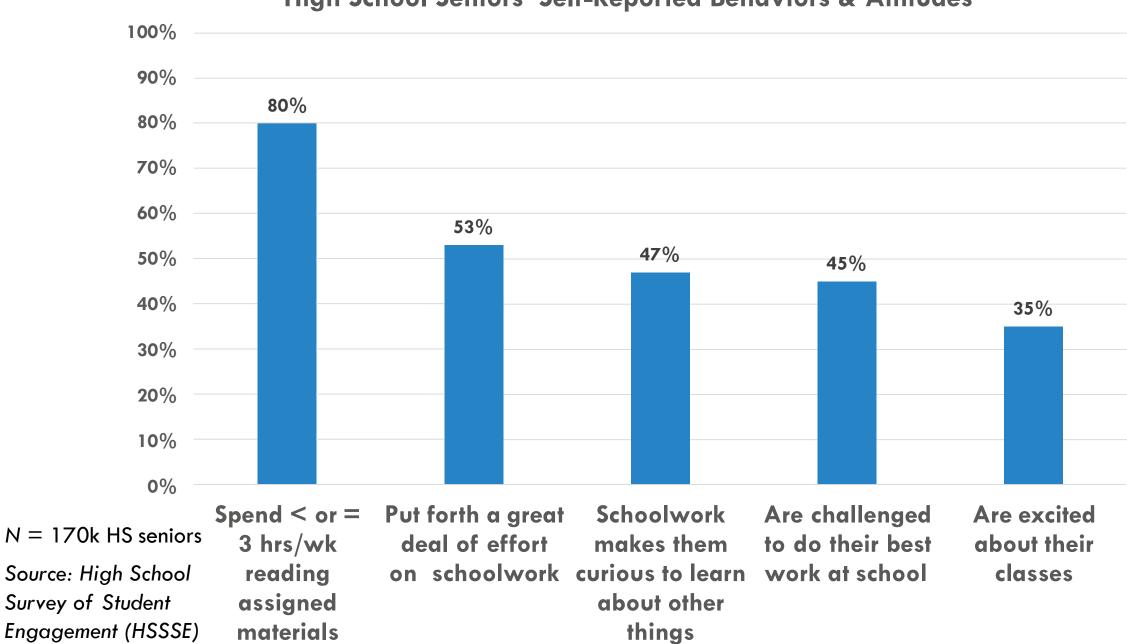
earn at least a B average in

college

Entering College Students Trends, 1968/71 vs. 2002



High School Seniors' Self-Reported Behaviors & Attitudes



COMMON TRANSITIO ISSUES

No expectations

Unrealistic expectations

Overconfidence

Different types of challenges

Faster pace, deeper understanding

Time less structured

Lack of Confidence

Choices/Balance

Wellness

Self-direction of learning

What struggles do your students face?

Schlossberg's Transitions Theory

- A transition is an event (or non-event) that results in change
- 4 things that determine the severity of a transition
 - Situation
 - Self
 - Supports
 - Strategy

Self-Regulated Learning: thinking, motivation & behavior during learning

Self-monitor progress towards goals

Make changes as needed so goals can be achieved

(Schloemer & Brenan, 2006)

Self Reflection:
"Am I reaching my goals through the strategies I created?" (Chen, 2011)

Non self-regulating students say things like....

I just do what my teacher tells me

Will Power

If I'm having trouble motivating myself to complete my homework, I just work harder

Self-Reflective Questions

- Is the amount of time you are spending on learning strategies enough?
- What learning strategies are working well?
- What learning strategies are not working well?
- What additional learning strategies, if any, are needed to stay on track toward your goal?
- Would seeking help assist you in achieving your goal? Who can help?



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STUDY

The act of texting, eating and watching TV with an open textbook nearby

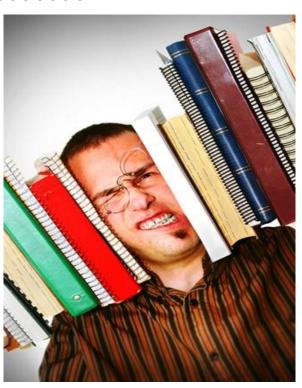
What <u>in</u>effective study methods have your students used?

What effective study methods have your students used?

What we KNOW isn't effective......

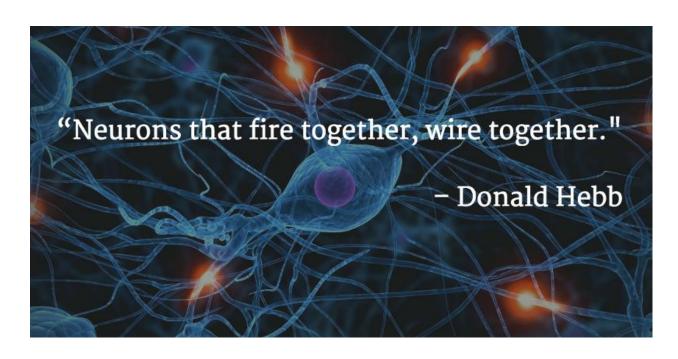
- Massed Learning (cramming)
- Highlighting
- Re-reading
- Direct repetition



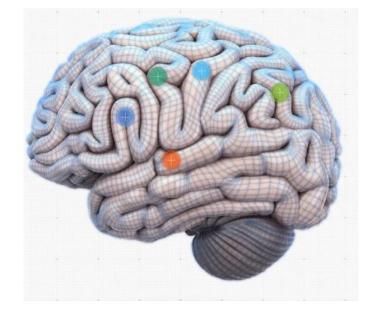


Strategies

- Intelligent Practice
- Spaced Repetition/Distributed Practice
- Self-Testing/Practice testing
- Recall
- Elaborate Rehearsal

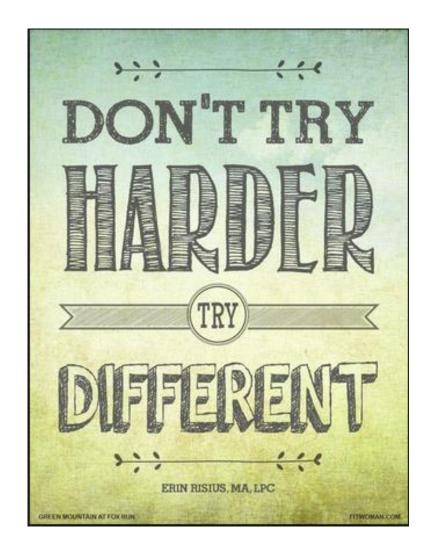


The Brain that does the work is the Brain that learns

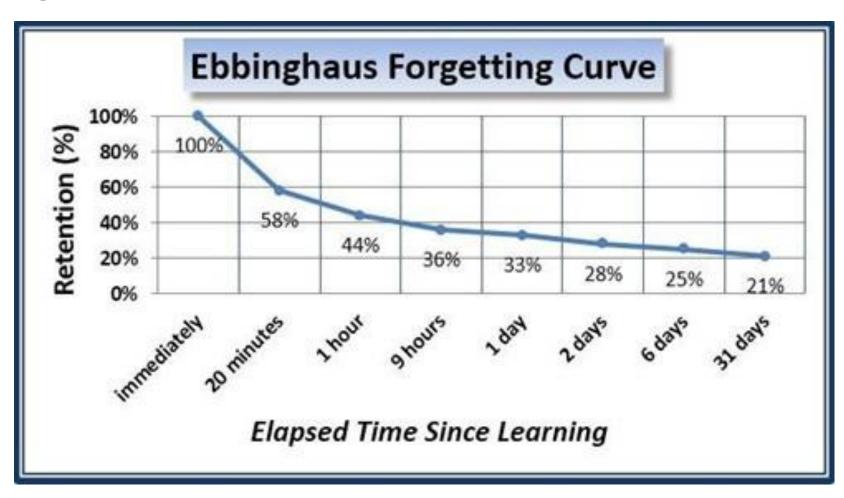


Intelligent Practice

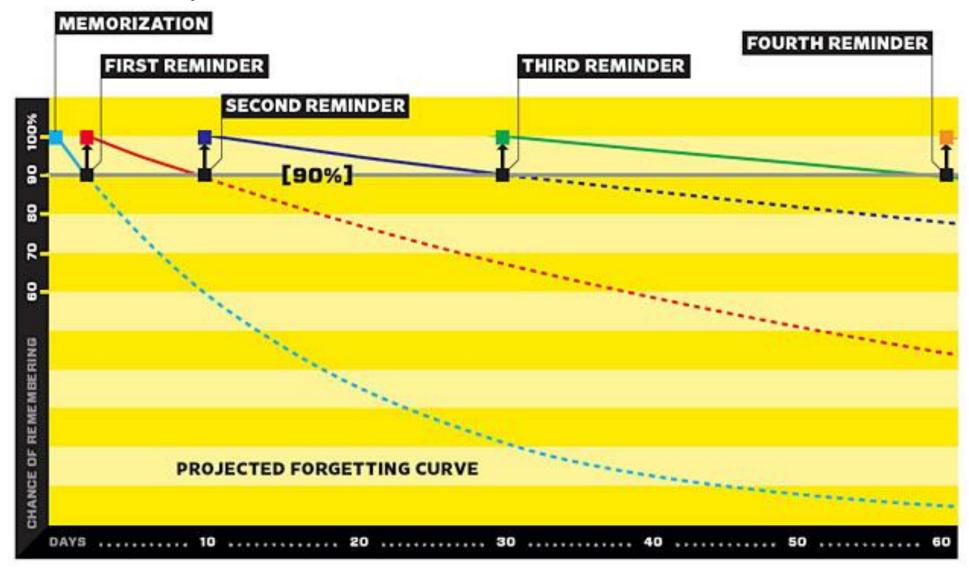
- Effort:
 - Mindset
 - Time on task
- Effective Strategies
 - Study Strategies
- Help from others



Spaced Repetition: Ebbinghous's Forgetting Curve



Spaced Repetition/Distributed Practice



Optimal Interval Ranges

Time to Test	First Study Interval
1 Week	1-2 Days
1 Month	1 Week
3 Months	2 Weeks
6 Months	3 Weeks
1 Year	1 Month

Cepeda, Vul, Rohrer, Wixled & Pashler (2008)

Pomodoro



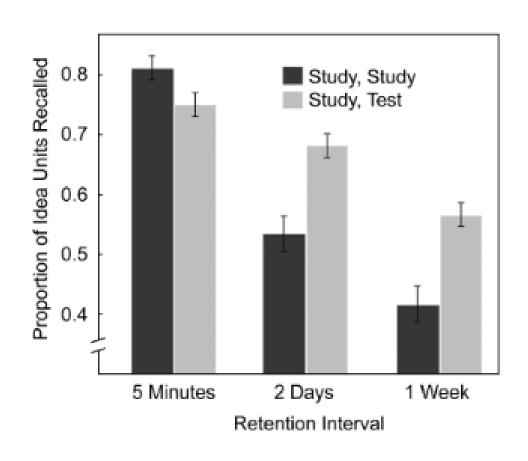
- ✓ 25 minutes
- ✓ no interruptions
- √ focus
- ✓ reward!

Application



- Space out your reading studying
- Review notes and study materials multiple times at different study sessions
- Study regularly instead of waiting till the exam
- Before class, review notes and materials from last class; after class (or at home) review notes from that day
- Try apps such as Anki (or ankiweb), Quizlet, Tiny Cards

Testing Effect



Research on Testing Effect

Einstein, Mullet, & Harrison, (2012)

Who? 52 college students taking an upper level course on Memory

Study-Study

- Read and Study passage 4 minutes
- Read and Study passage 4 minutes

Study-Test

- Read and Study passage 4 minutes
- Recall as much as possible for 4 minutes

Self-Assessment

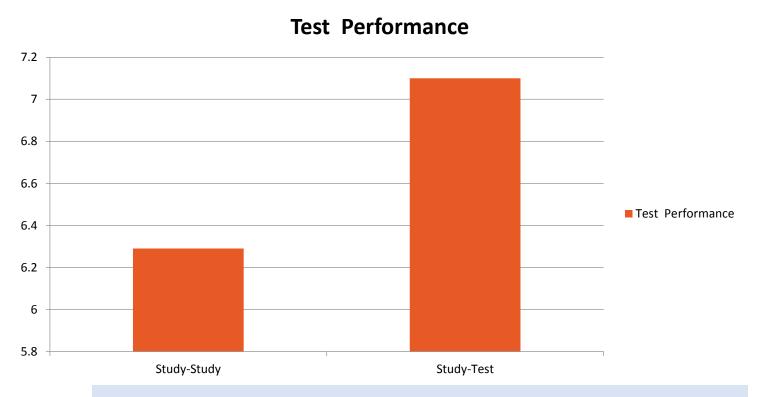
 How well did you remember the content?

Presentation

 20 Minutes on Testing Effect

The Results

Einstein, Mullet, & Harrison, (2012)



But... Students thought they did equally well

The Results

Einstein, Mullet, & Harrison, (2012)

Students were MORE likely to USE TESTING

as a study tool <u>after</u> this demonstration!

67% used testing during reading

82% used testing strategy when studying

Application



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- Testing improves memory
- Learning about researchbased strategies increases likelihood you will use effective study techniques
- Self Quiz through flashcards, free recall, practice tests, study groups

Research on Studying

Dickinson and O'Connell (1990)

Research Question:

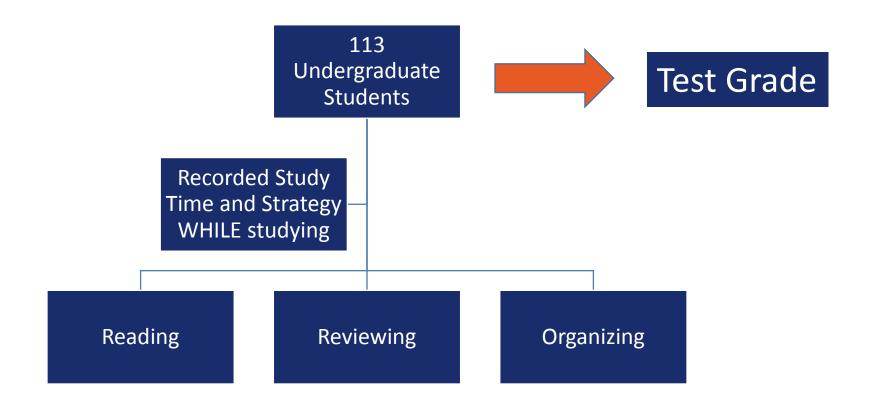
Does **how long** you study or **how** you study matter more? What study approach works best?



Tom Peterson, Middlesex County College

The Study

Dickinson and O'Connell (1990)



Defining Organizing

Dickinson and O'Connell (1990)

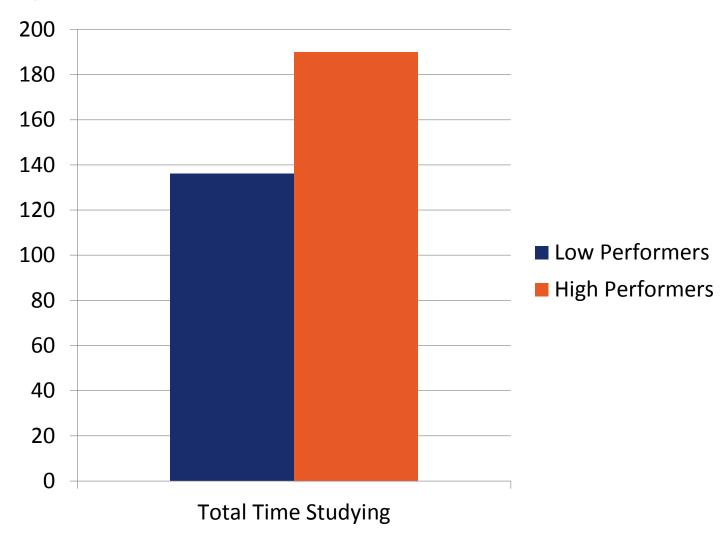
Put information into your own words

Create links between concepts via a hierarchical structure

Create examples to help concepts come alive

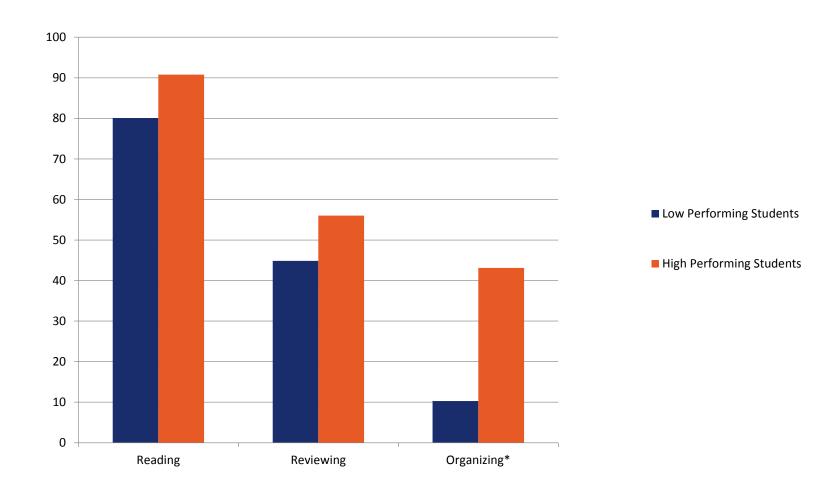
The Results!

Dickinson and O'Connell (1990)



The Results!

Dickinson and O'Connell (1990)



Application

- Reading and reviewing, while important, are NOT enough!
- Increasing organizing techniques will maximize study time
- Use Elaborate Rehearsal summaries, graphic organizers, teach others, alternate problem solving techniques



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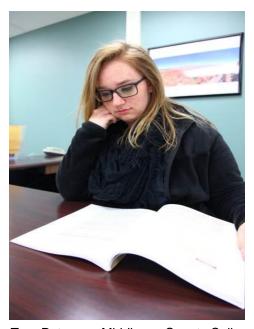
Exploring the Research

McDaniel, Howard, & Einstein (2009)

Research Question:

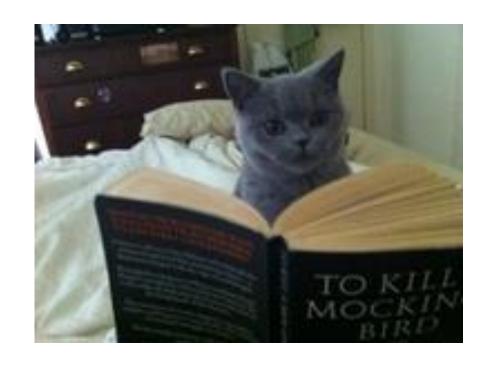
Which reading strategy works best?

- Re-reading
- Note-taking
 - 3R



Tom Peterson, Middlesex County College

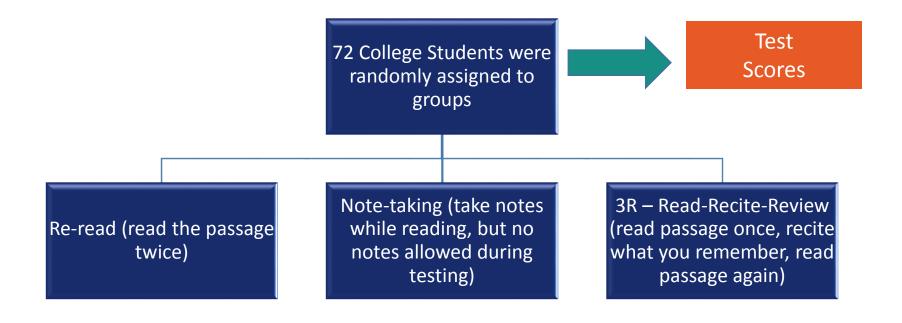
The 3R Method



Read Recite Review

The Study

McDaniel, Howard, & Einstein (2009)



The Results!

McDaniel, Howard, & Einstein (2009)

Students who used the 3R method did better on fact based questions

The 3R and Note-taking methods worked best with problem-solving tasks

The 3R method was less time consuming than the note-taking method

Application

- Using the 3R technique will not add significantly to study time, but will likely lead to more positive academic outcomes
- Consider both verbal and written methods for step 2- Recite



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The Research Question

Dietz-Uhler & Lanter (2009)

Will students who complete a four question self-reflection activity before a quiz perform better than students who complete this activity after the quiz?



Tom Peterson, Middlesex County College

The Study Dietz-Uhler & Lanter (2009)

107 undergraduate students

Reflection First

Quiz First

Self-enhancement topic

Prisoner's dilemma topic Self-enhancement topic

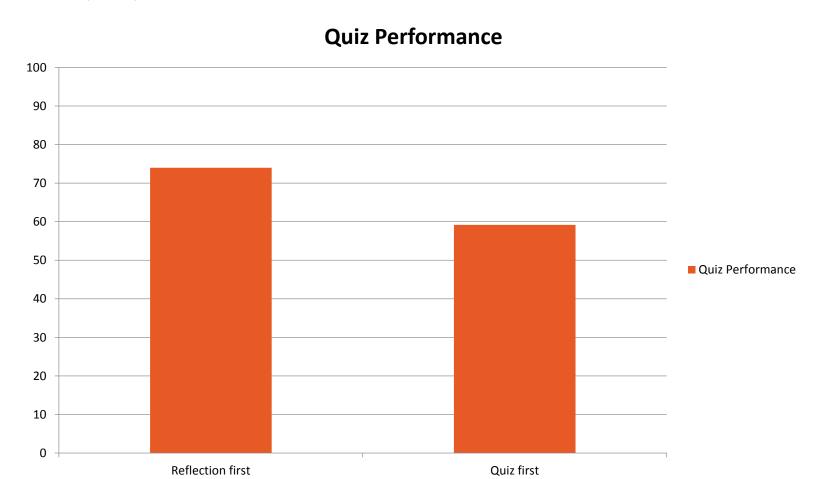
Prisoner's dilemma topic

The Reflection Exercise:

- Analyze
- Reflect
- Relate
- Question

The Results!

Dietz-Uhler & Lanter (2009)



Application

Dietz-Uhler & Lanter (2009)



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Ask yourself reflective questions such as:

- "What is the purpose of learning this information?"
- "What are the benefits of learning this information?"

What do we know?

• https://play.kahoot.it/#/k/a404e79a-4642-44d6-9e06-d779b448957c

On your card:

What's one study strategy you can use or share in your class next week?



Questions????