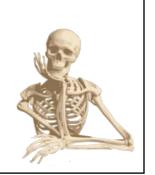
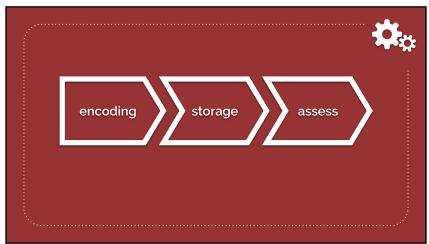


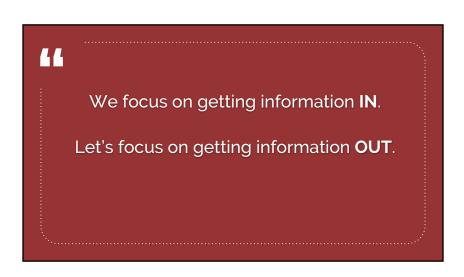
How many bones in the human body?







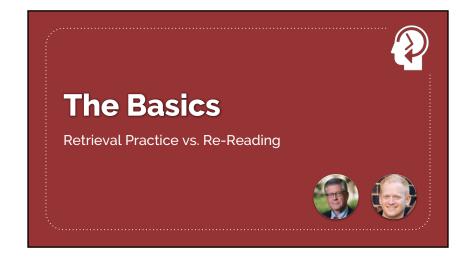




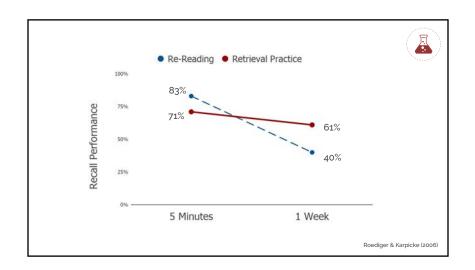


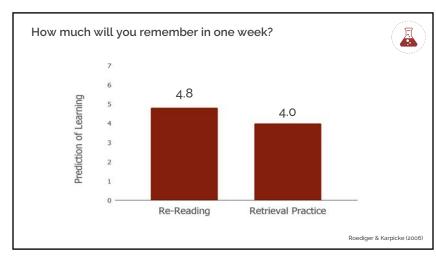




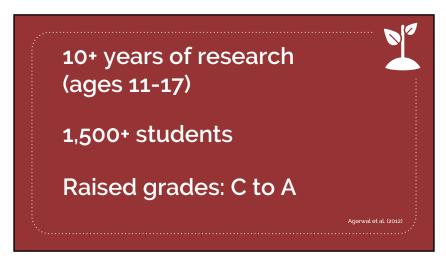




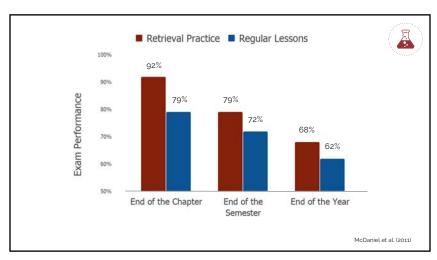




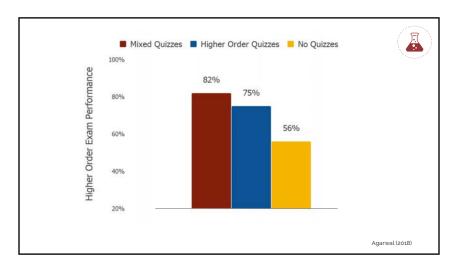


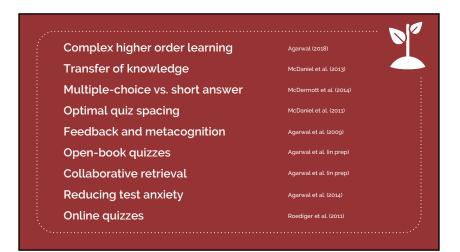


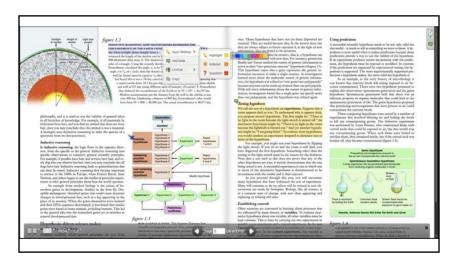




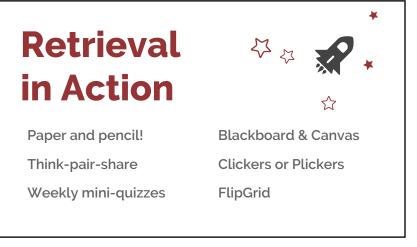












What is your least favorite ice cream flavor?



Retrieval Guidelines



Low or no stakes

The more, the better

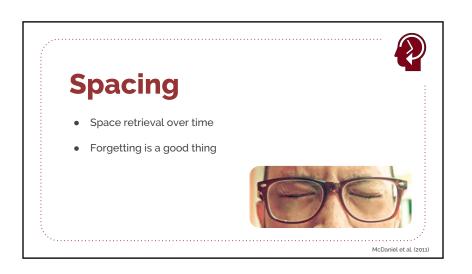
Keep it closed-book

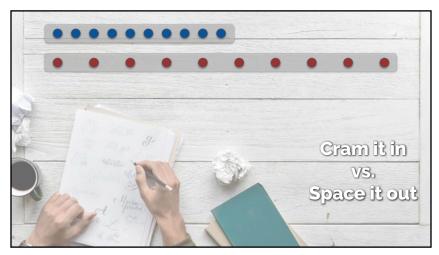
Retrieval saves time!

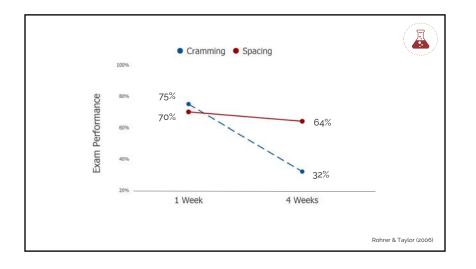
How many bones in the human body?

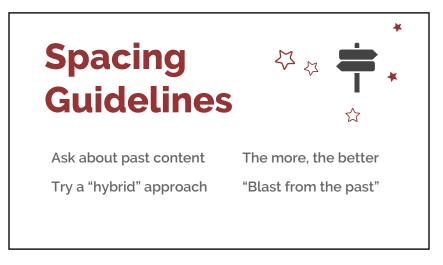




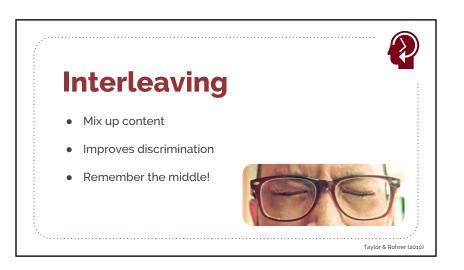








What did you learn today? VS. What did you learn **yesterday**?









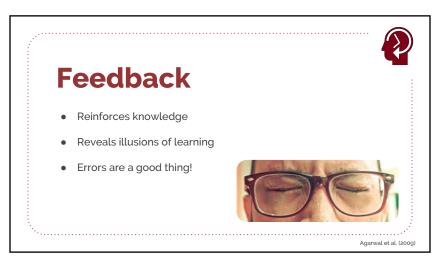
Mix similar topics

Try a "hybrid" approach

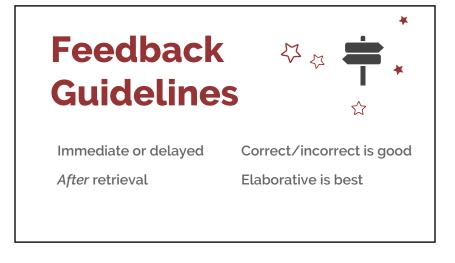
Think of a fruit salad!

Dice or fishbowl games











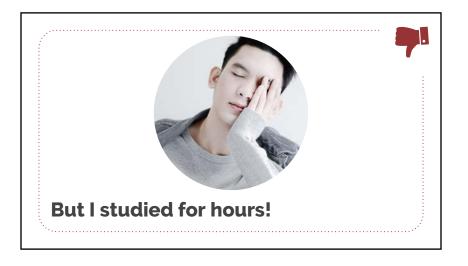
Challenge 🚓 🖈 learning



These strategies are "desirable difficulties"

Flexible for all students and all content areas

You can combine them, too!



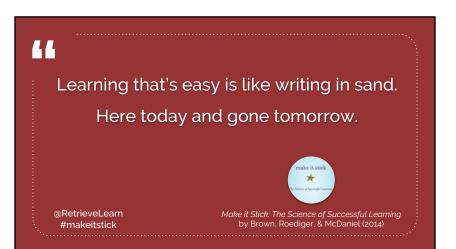




Re-reading Highlighting & Underlining

Note taking Flashcards (sometimes...)

Dunlosky et al. (2013)



Start small • Tweak what you're already doing



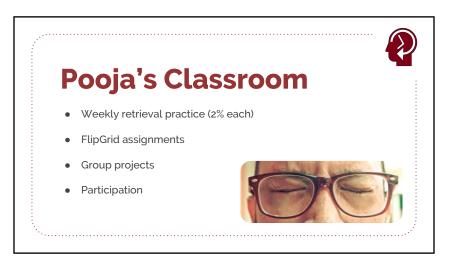
• No extra prep, grading, or class time

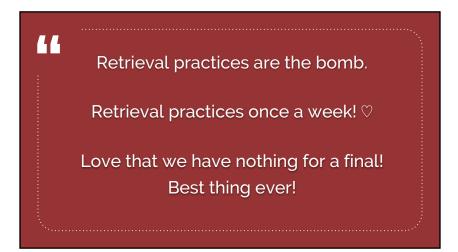
• Save time in the long run





Pooja's Classroom NO papers NO midterm exam NO final exam NO high stakes









Let's continue!

- Effective classroom strategies, activities, technology
- Building a supportive class culture
- Boosting student study strategies
- More research!



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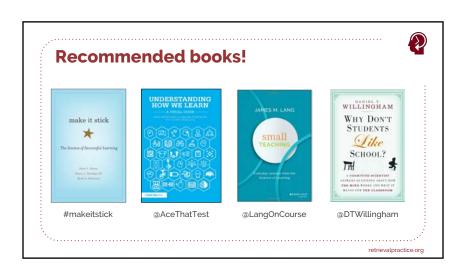
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How many bones in the human body?



Let's transform learning by getting information out.

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