



Spaced Repetition in the classroom



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What do we know?

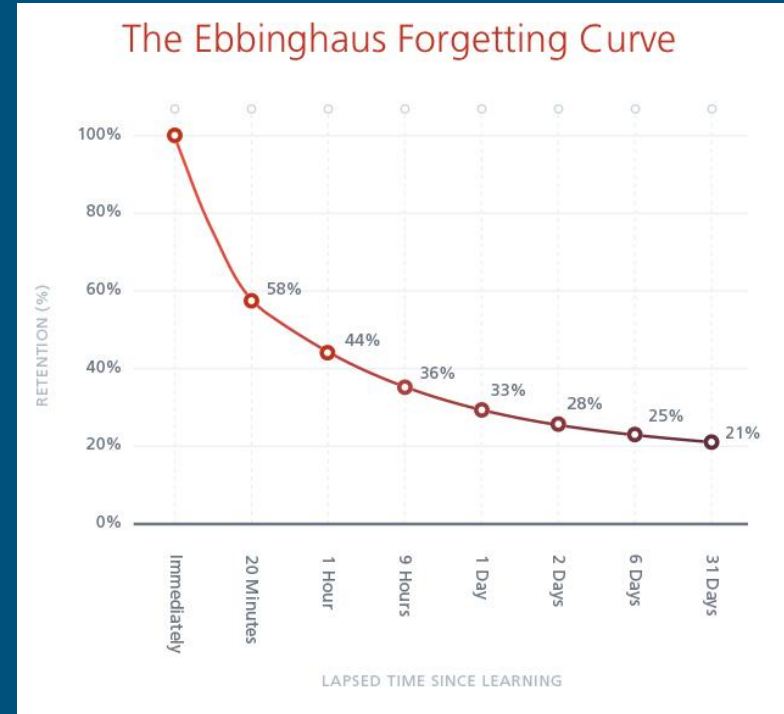
Please answer the following questions using the chat

- Has anyone heard of spaced repetition before?
- Has anyone heard of/used Anki?
- Does anyone know of other methods to increase learner recall?

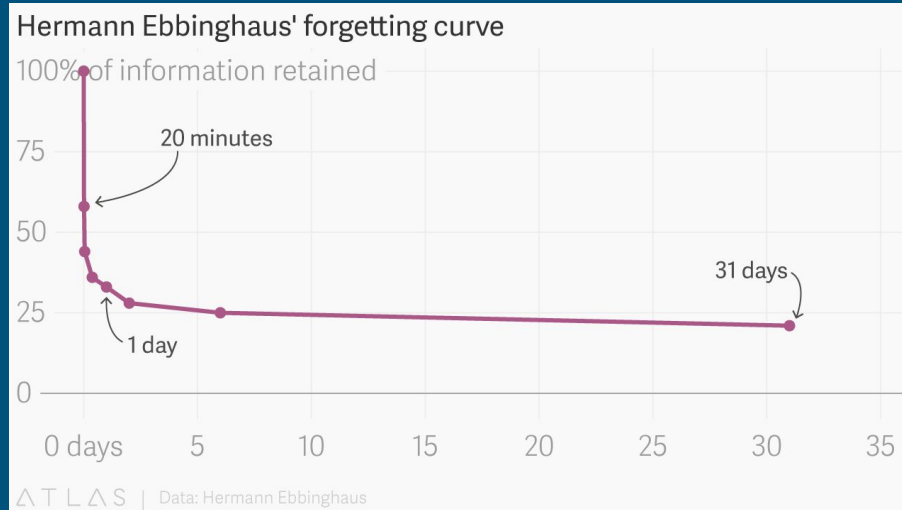


The Ebbinghaus Forgetting Curve

- Ebbinghaus memorized short sequences of letters (e.g. DSVT) for a given period of time and tested his ability to recall the sequences at later times.
- Showed there was an exponential fall off of his ability to recall



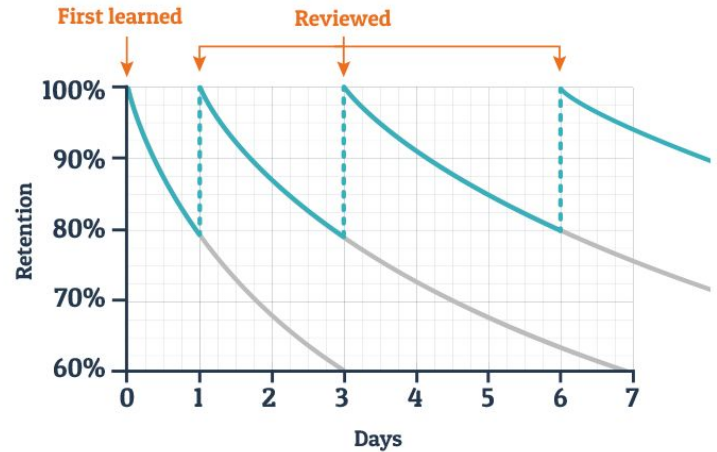
Does this model align with your experience?



Can we avoid the effects of Ebbinghaus?

- If we **review** material in a regular/timed fashion, we can increase our ability to recall.
- Each time we do this, our forgetting curve repeats, but with a slower decrease in recall ability.

Typical Forgetting Curve for Newly Learned Information



How do we use this as teachers?

- You probably already use some of this knowledge implicitly!
- Can try and review important material according to Ebbinghaus forgetting curve to help improve student recall.
- Remember, “recall” is the base of Bloom’s taxonomy of educational objectives.

LaRose Elementary Lesson Plan

Teacher(s) : _____

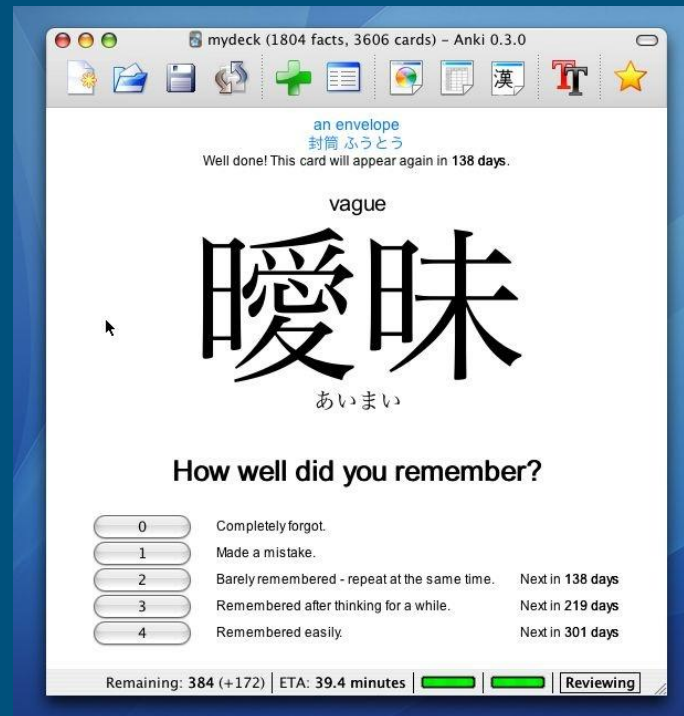
Week of: _____
 Subject: Reading/Social Studies/Writing/Science

		Monday	Tuesday	Wednesday	Thursday	Friday
Standards		Day One	Day Two	Day Three	Day Four	Day Five
Know and understand	Reading Literature and Informational	Objectives: (I Can...)	Objectives: (I Can...)	Objectives: (I Can...)	Objectives: (I Can...)	Objectives: (I Can...)
	Reading Foundational Skills					
	Writing					
	Language					
	Speaking and Listening					
Text:						
Reading Genre:						
Lexile Level:						
Phonics and Sound Patterns (Plan for a 5-10 Mini-Lesson)						
Type of Instruction using Gradual Release-REQUIRED IN ALL LESSONS: I Do- How will the teacher model skill/strategy to students? We Do- How will teacher and students practice skill/strategy to demonstrate mastery? They Do- How will students practice skill/strategy with peers to demonstrate mastery? You Do- How will students demonstrate mastery of skill/strategy independently		WHOLE GROUP	WHOLE GROUP	WHOLE GROUP	WHOLE GROUP	WHOLE GROUP
		I Do- We Do/They Do- You Do-	I Do- We Do/They Do- You Do-	I Do- We Do/They Do- You Do-	I Do- We Do/They Do- You Do-	I Do- We Do/They Do- You Do-

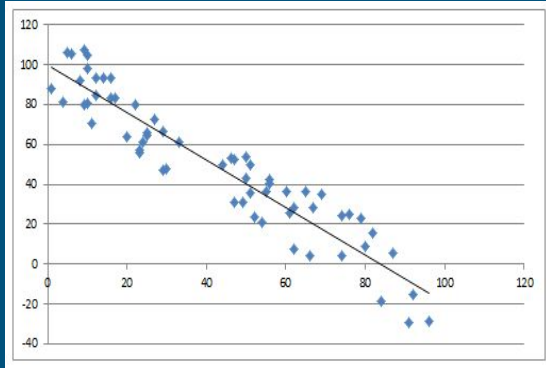
Shelly County Schools
 2015/2016
 1 of 3

Spaced repetition software (SRS)

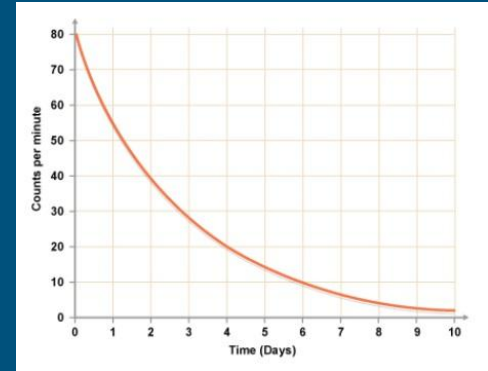
- Anki is a popular application that automatically schedules “flashcards” so you review them at the optimal time, for long term recall.
- Make flashcard decks for students from topics/facts in class.



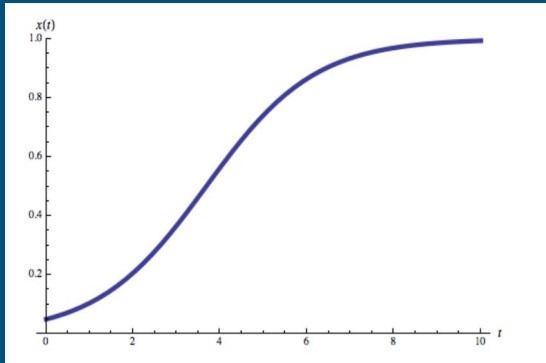
Which curve most resembles the Ebbinghaus forgetting curve?



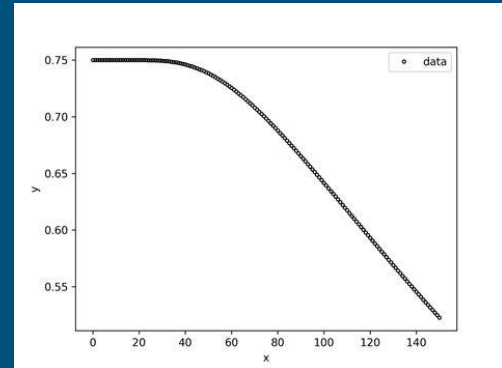
(a)



(b)



(c)



(d)

How much information has a learner forgotten 24 hours after a lecture?

- (a) 50%
- (b) 70%
- (c) 90%

Recap

- Our ability to recall after a lecture quickly fades if nothing is done.
- Reviewing material dramatically helps us lose less information.
- Even better, reviewing according to the Ebbinghaus forgetting curves helps create long lasting recall.

