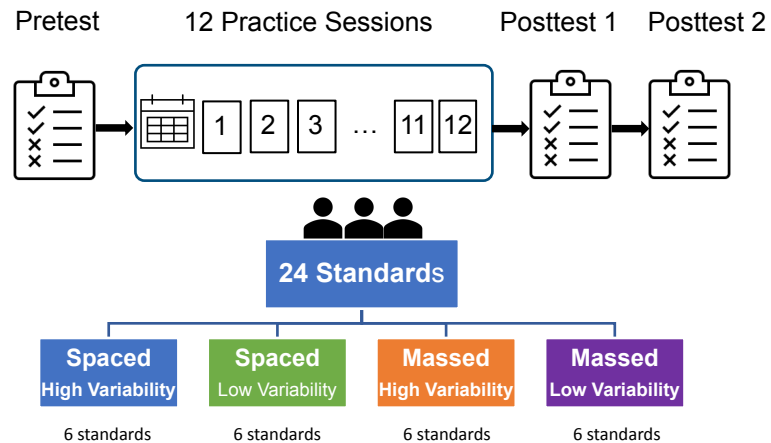
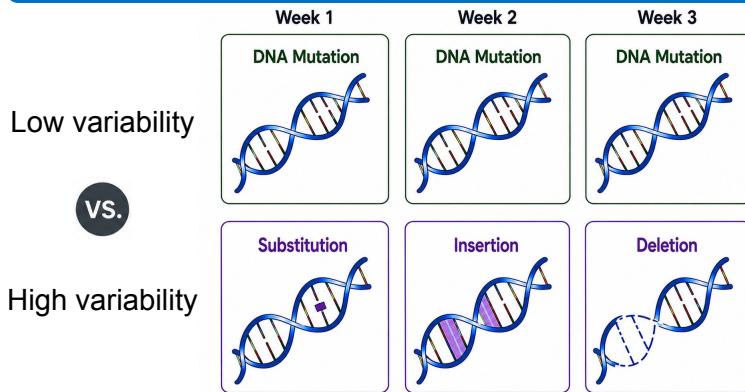


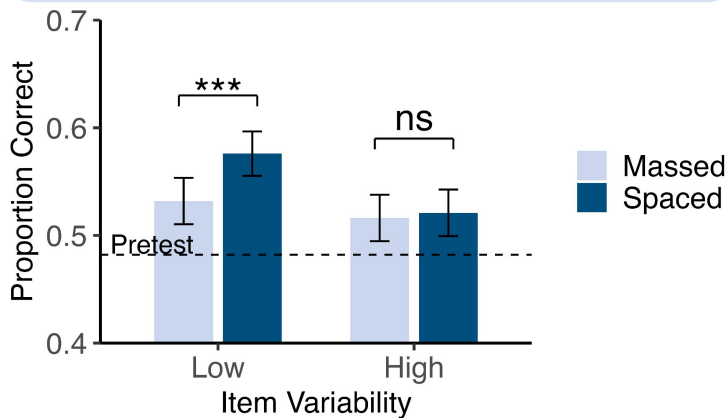
Spacing works best when the same knowledge is repeatedly practiced

#2301130: Improving STEM K-12 Learning Using Optimal Spaced Retrieval in an Existing Educational Technology Platform

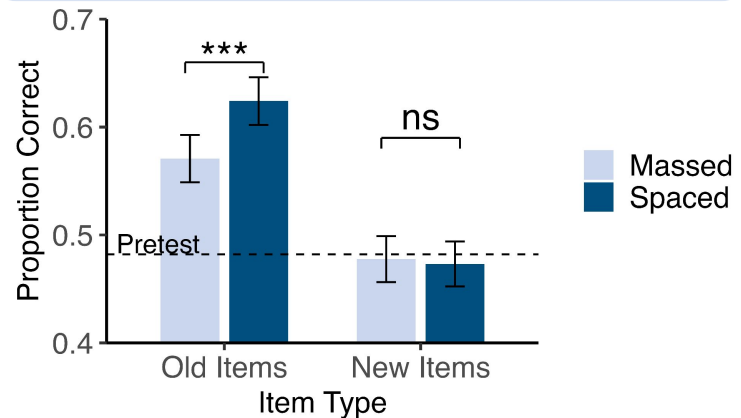
What should be spaced?



Spacing improved learning for exact repetitions



Spacing was mainly beneficial for memory retention, NOT transfer.



Methods

Large-Scale Experimentation

EdTech

- 52 middle and high school classrooms, 1,050 students.
- Administered all practice activities and assessments during regular class time.

Challenges Overcome

Classroom research

- Recruiting a large scale of schools and teachers to participate.
- Fitting all tasks into regular class schedules.
- Sustaining participation across multiple weeks.



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