Optimizing Checkpoints:

Engaging Students By Revamping Questions

cumsum(Kowoon Jeong, Irene Zhang, Jane Zou)
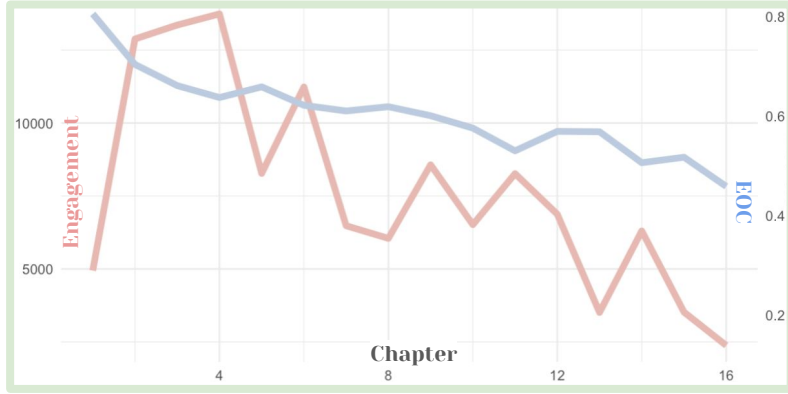
1 Hi

2 The Challenge

3 Our Suggestions

Engagement _declines_ sharply by 16% per chapter.
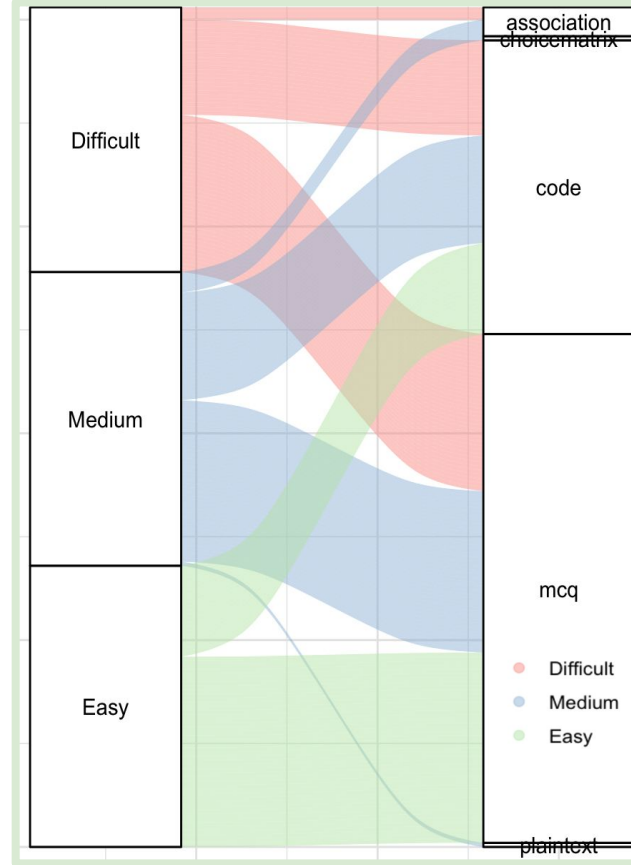
Engagement vs EOC over Textbook Chapter

Question Difficulty and Type

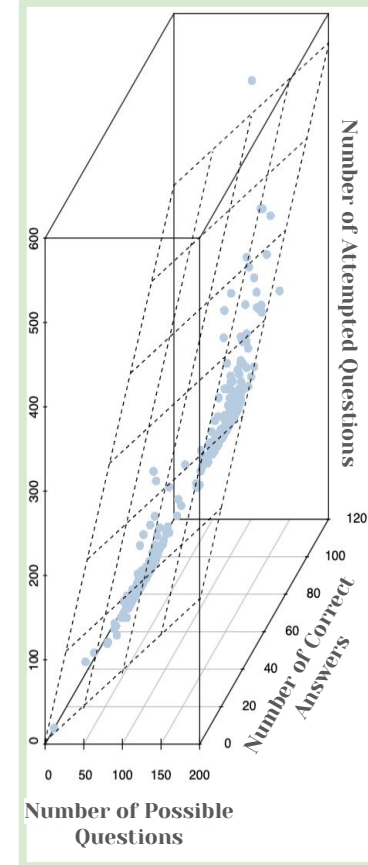## Correct Answers by Possible and Attempted

What does accuracy depend on?

Question difficulty

But, how do we increase student accuracy?

Try, try again!

Accuracy <u>increases</u> with *optimal retries* & a *character min.*

EOC vs "Tried Again" Clicks & Difficulty

There is a *different* optimal number of retries by difficulty!

Difficult
Medium
Easy

Character Count & Correct Answers by Difficulty

Difficult
Medium
Easy
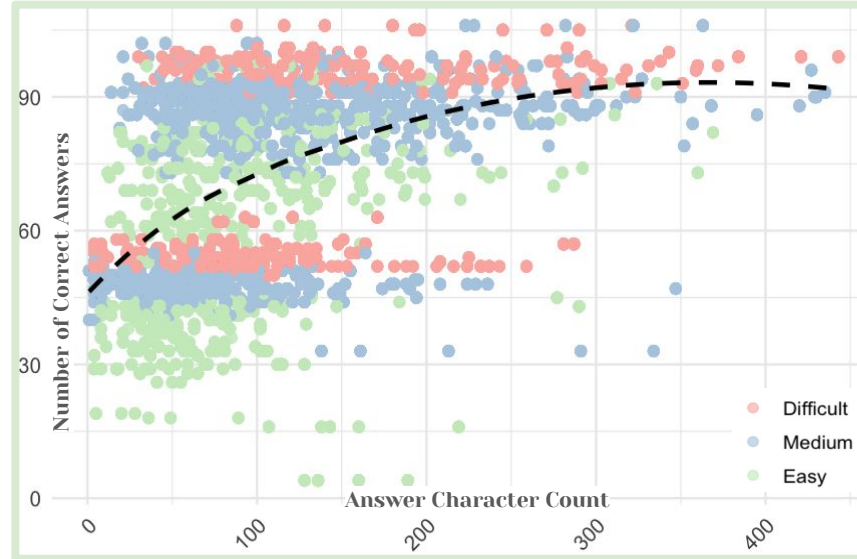
Character Count by Ch. to Pass (EOC = 0.7)

Ch 5.3 — 38
Ch 5.1 — 1
Ch 4.9 — 52
Ch 4.4 — 122
Ch 4.3 — 89
Ch 4.2 — 57
Ch 4.1 — 74
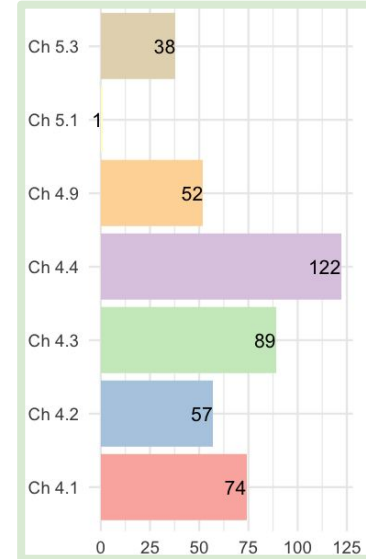
Suggestions to increase student engagement

↻ Allow a *set number of attempts* based on question difficulty

Ⓦ Establish a *minimum word count* for long & short responses