

Using Evidence to Inform Practice



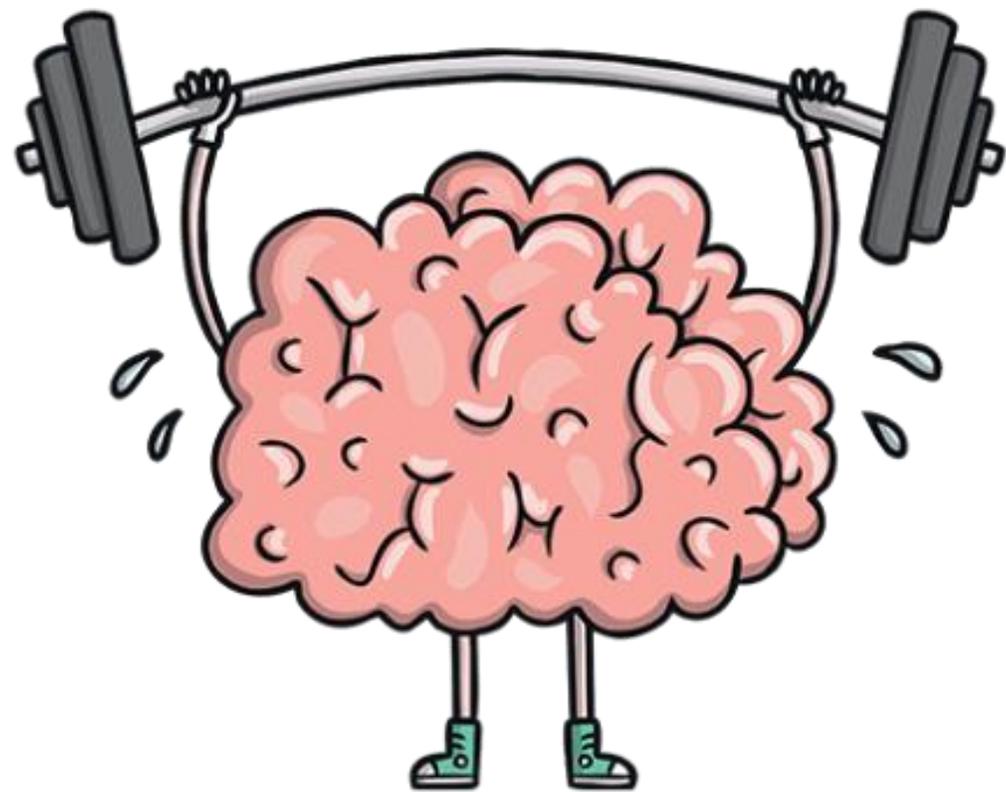
Peps

@pepsmccrea

Evidence



Steplab



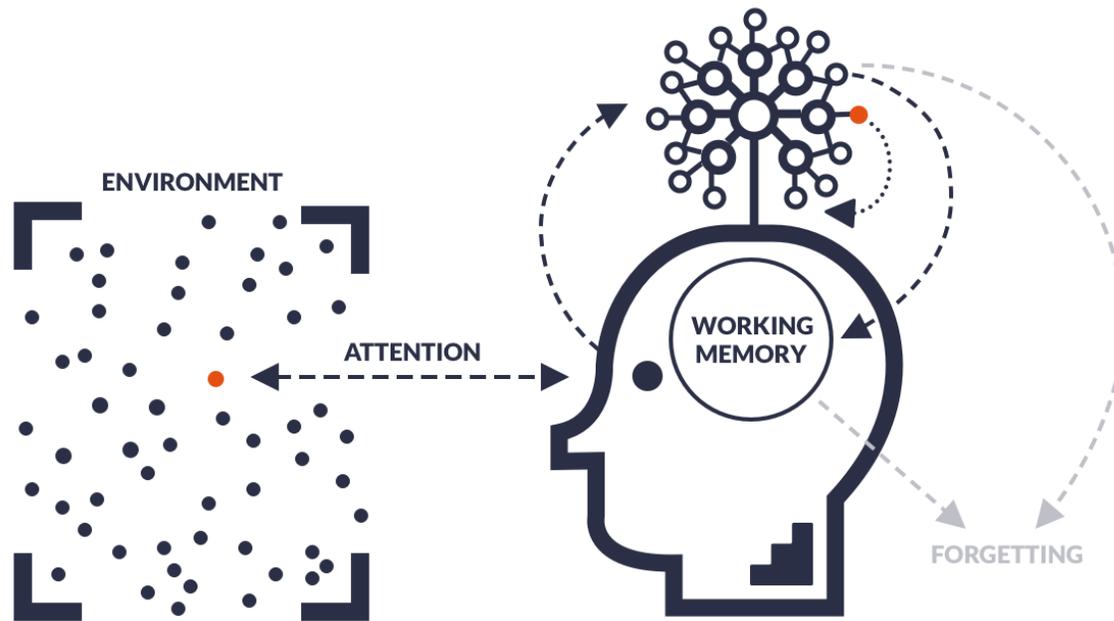




**What we attend to is
what we learn about.**

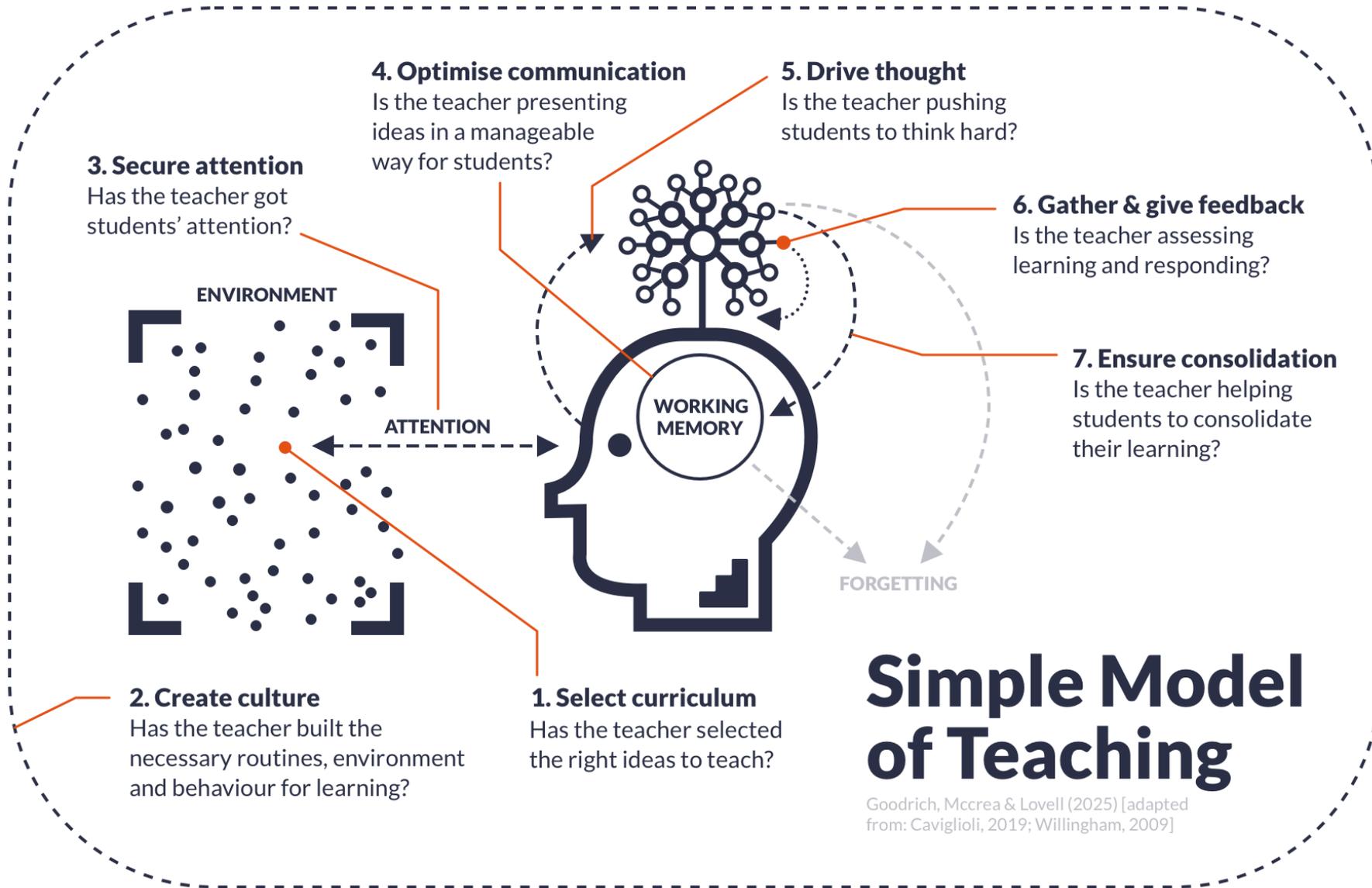
**We can only attend to
a few things at once.**

**How we learn is
more similar than
it is different.**



Simple Model of Learning

Goodrich, McCrea & Lovell (2025) [adapted from Caviglioli, 2019; Willingham, 2009]



Simple Model of Teaching

Goodrich, Mccrea & Lovell (2025) [adapted from: Caviglioli, 2019; Willingham, 2009]

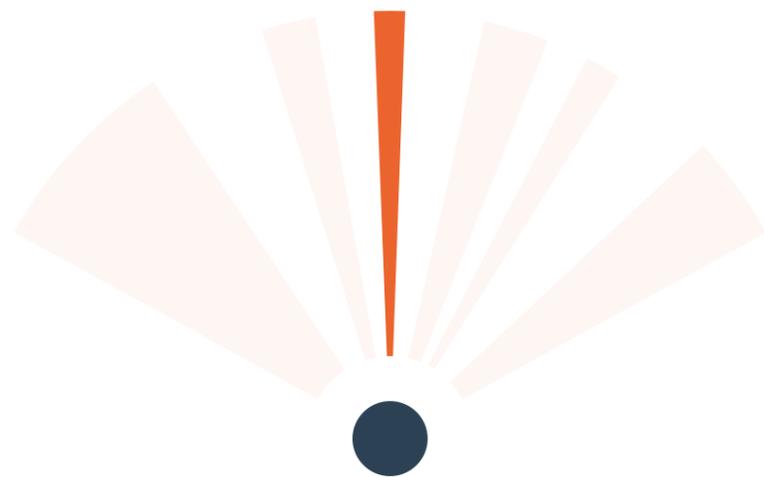
1. Distractions

2. Ratio

3. Routines

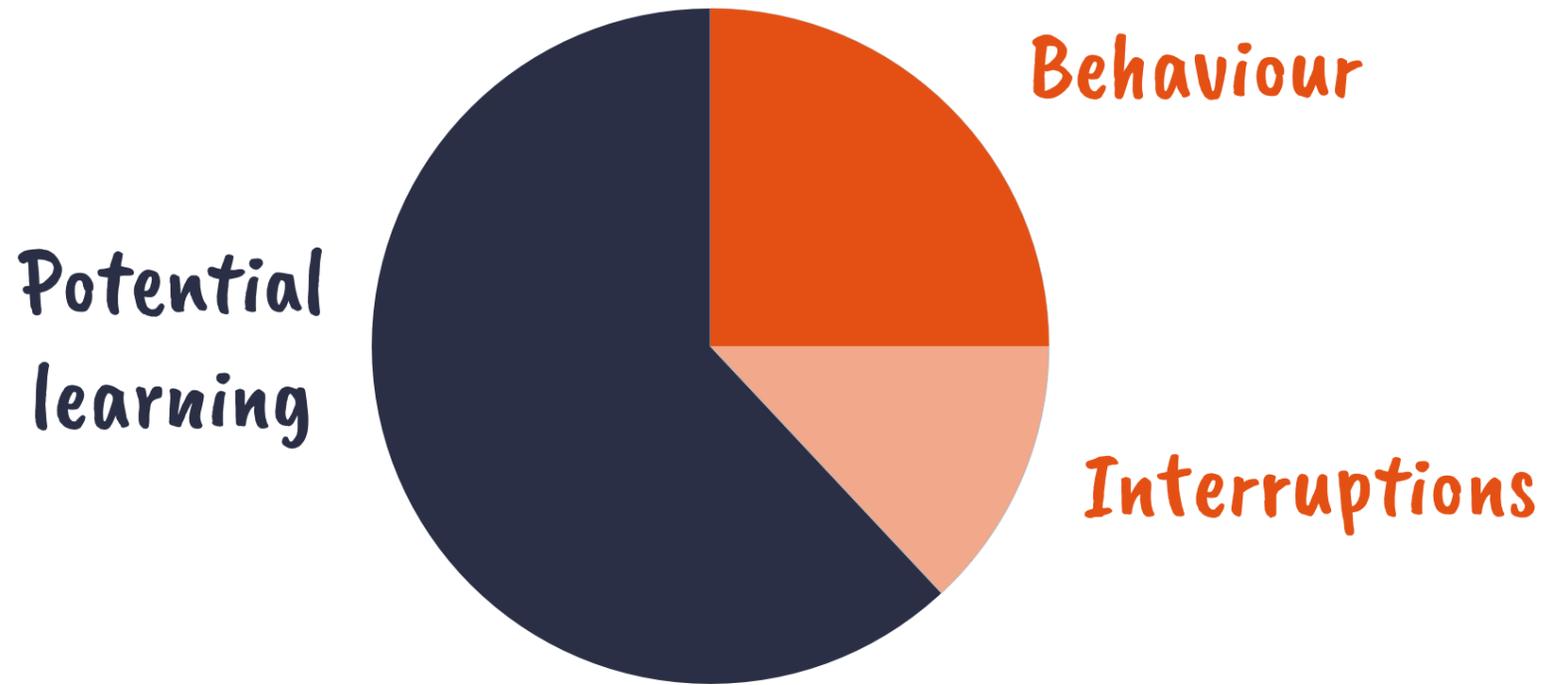
4. Norms

5. Alignment



“We estimate that a typical classroom is interrupted more than 2,000 times per year, resulting in the loss of between 10 and 20 days of instructional time.”

— Kraft & Monti-Nussbaum, 2021



A typical lesson

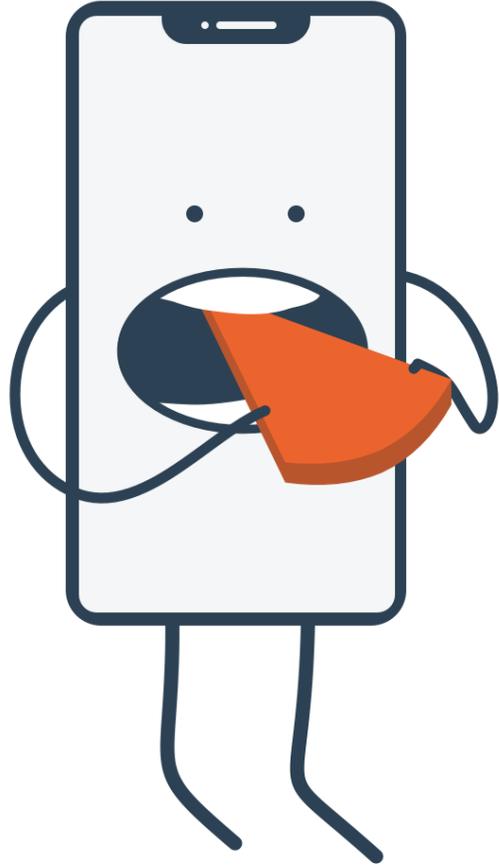
Duration of disruption



Lost learning time

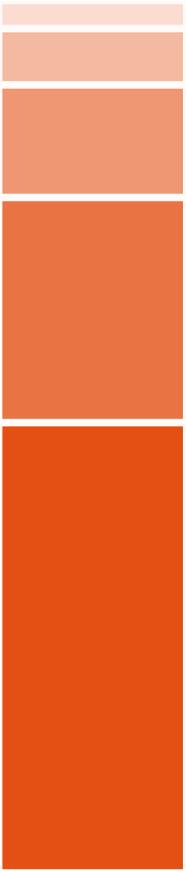






Attention

Distraction factor



Displays

Behaviour

1. Distractions

2. Ratio

3. Routines

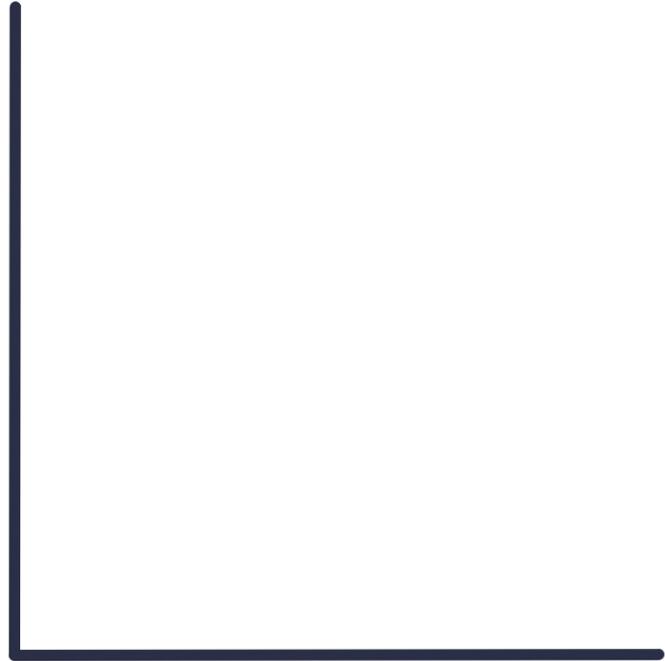
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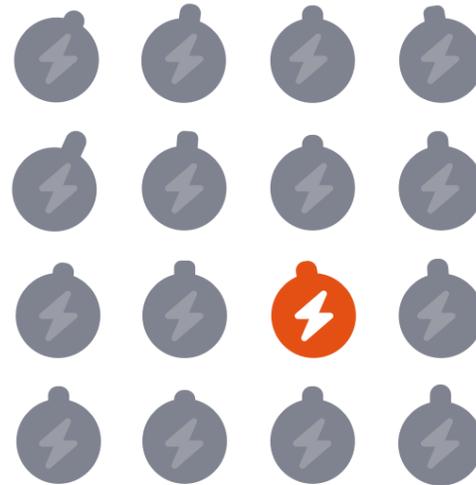
Number of students

Amount of thinking



Jo... what is a noun?

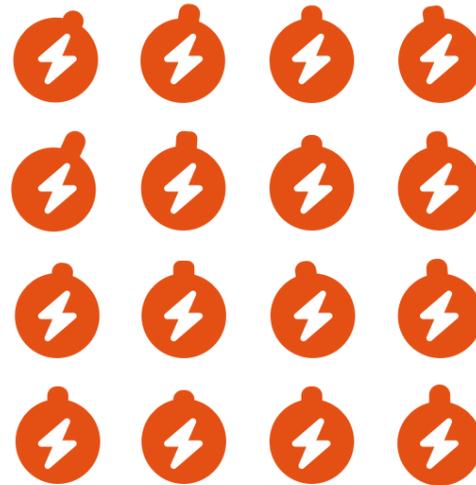
Only Jo is thinking



Inspired by the work of Doug Lemov

What is a noun... Jo?

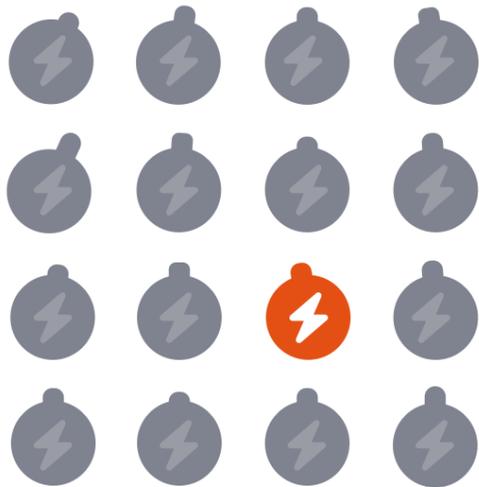
All students are thinking



Inspired by the work of Doug Lemov

Jo... what is a noun?

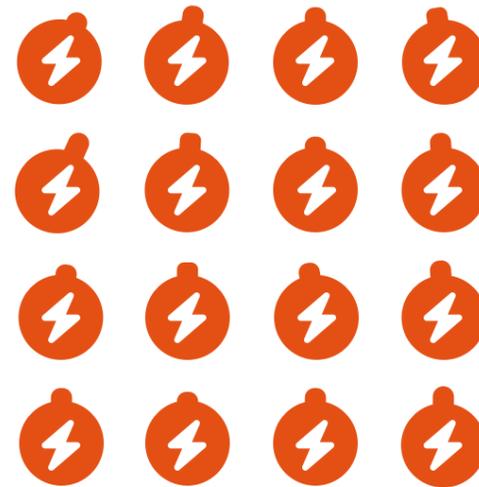
Only Jo is thinking



x20

What is a noun... Jo?

All students are thinking



What is a noun... Jo?

All students are thinking

What is a noun... [waiting & scanning for 10 seconds]... Jo?

All students are thinking

What is a noun? You have 20s to jot down your thoughts.

All students are thinking

Now, you have 20s to share your ideas with your partner.

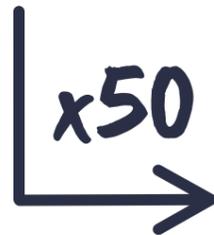
All students are thinking

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What is a noun... Jo?

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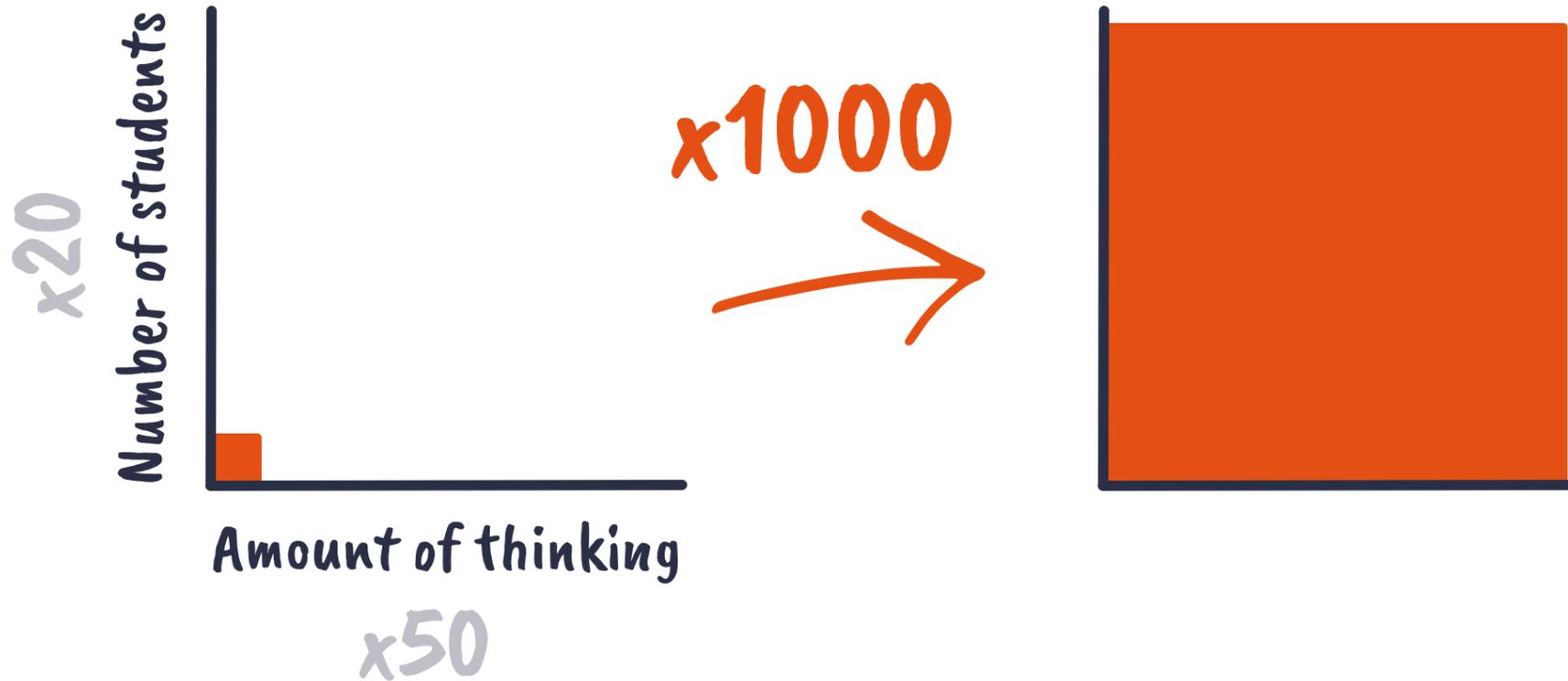
All students are thinking

Now, you have 20s to share your ideas with your partner.

All students are thinking

What is a noun... [waiting & scanning for 10 seconds]... Jo?

All students are thinking



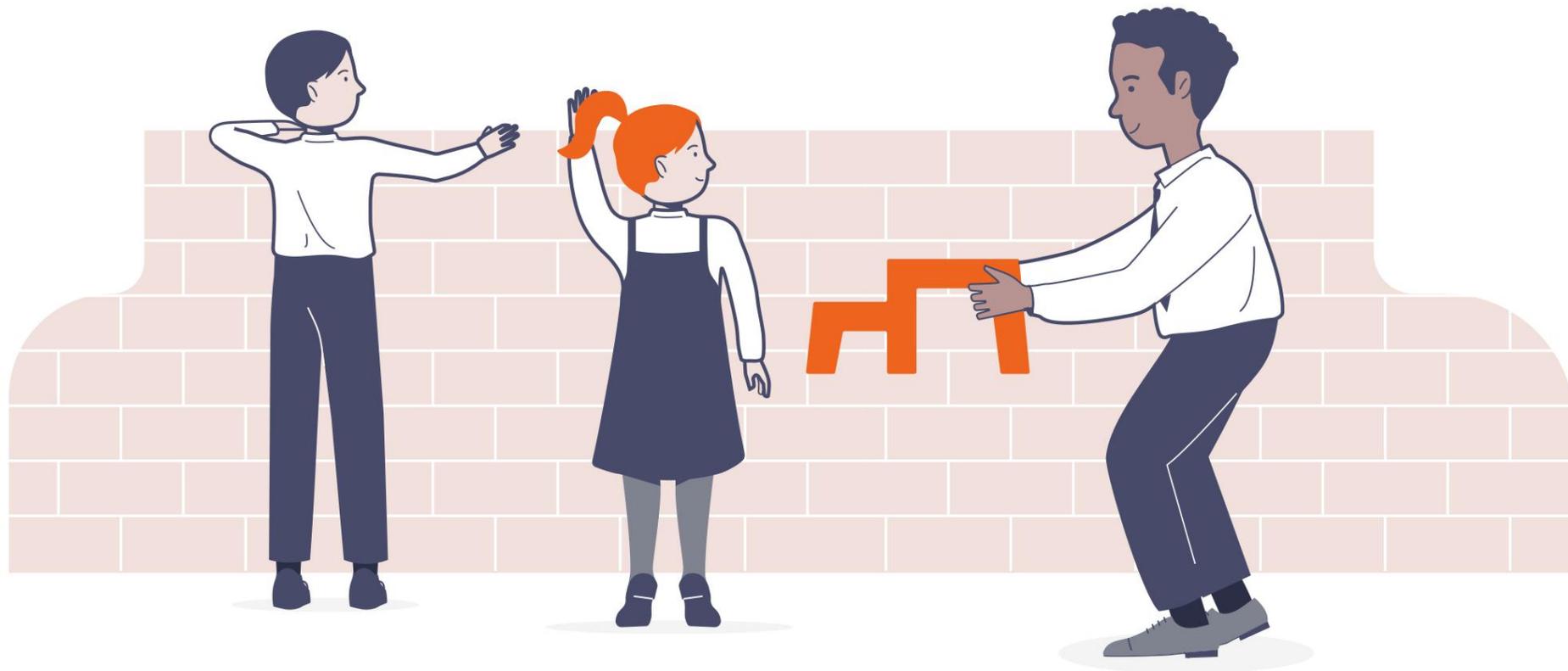


Image from Steplab



1. Distractions

2. Ratio

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4. Norms

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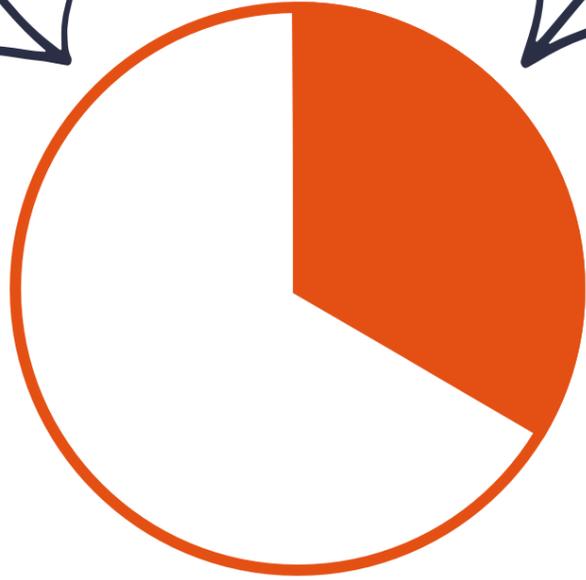
Cue



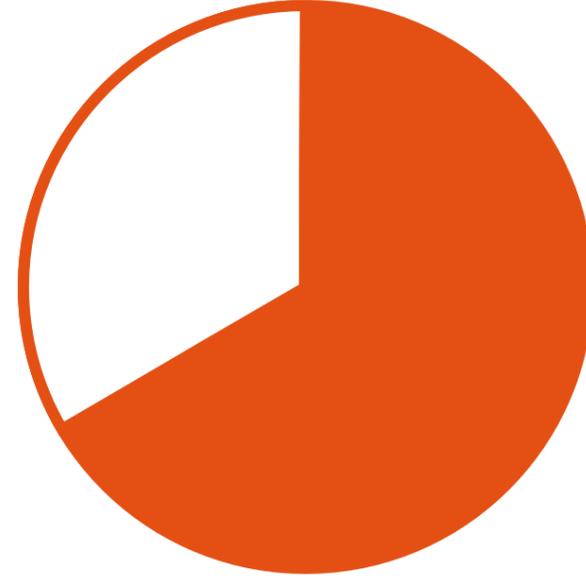
Actions

How

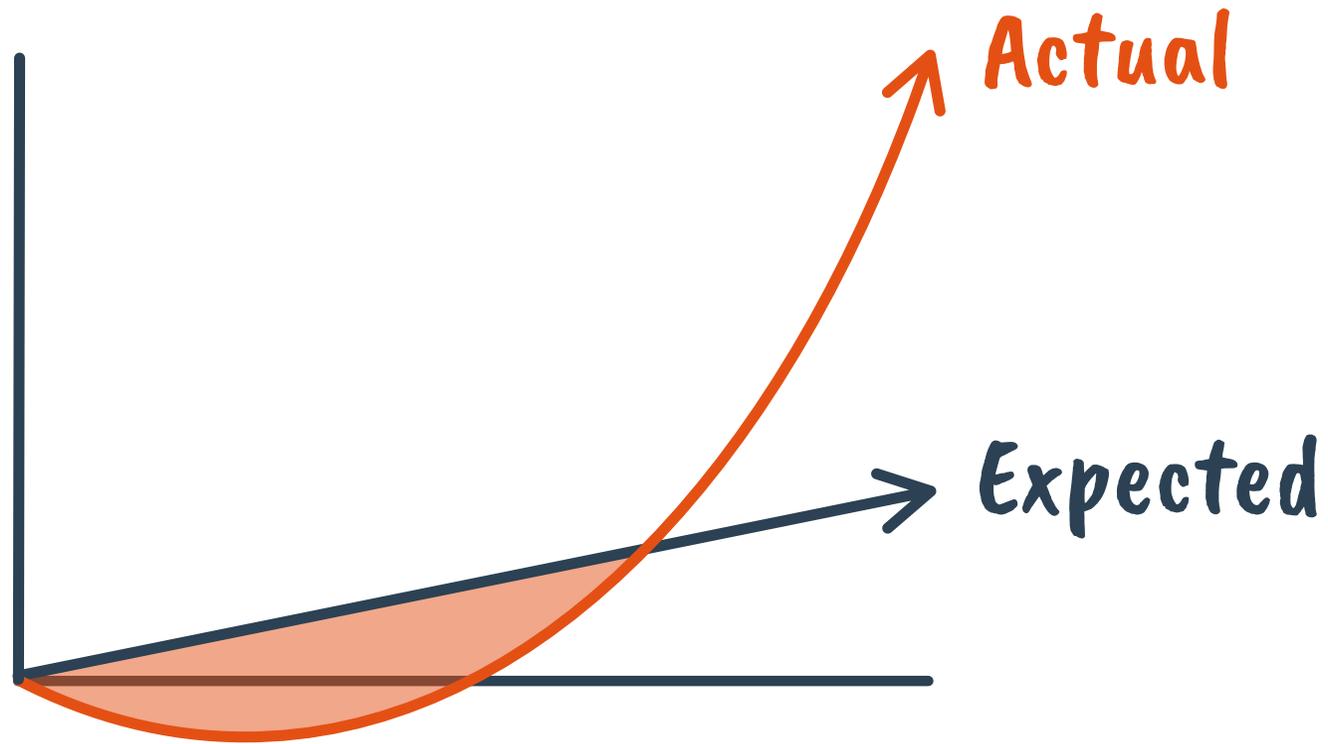
What



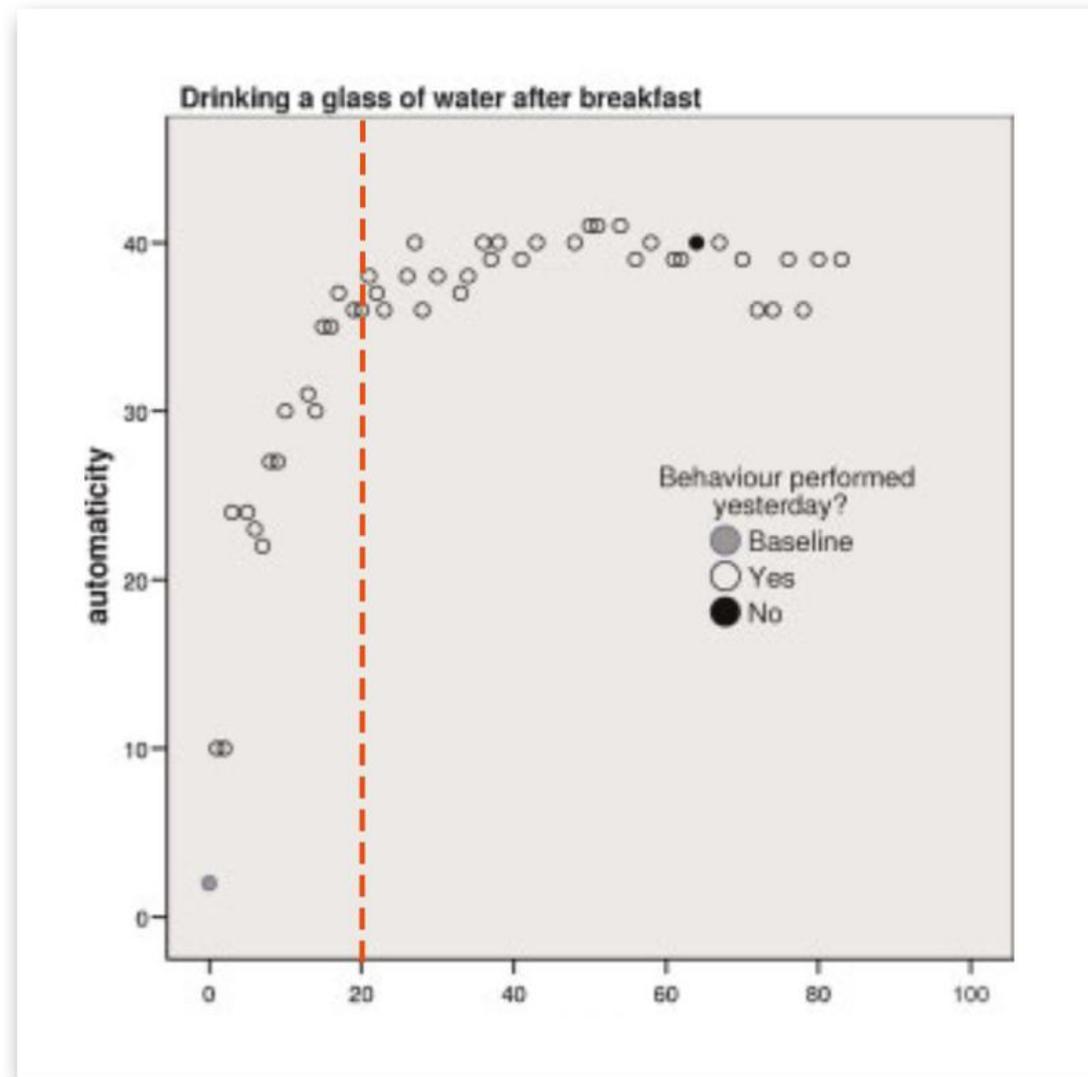
Before



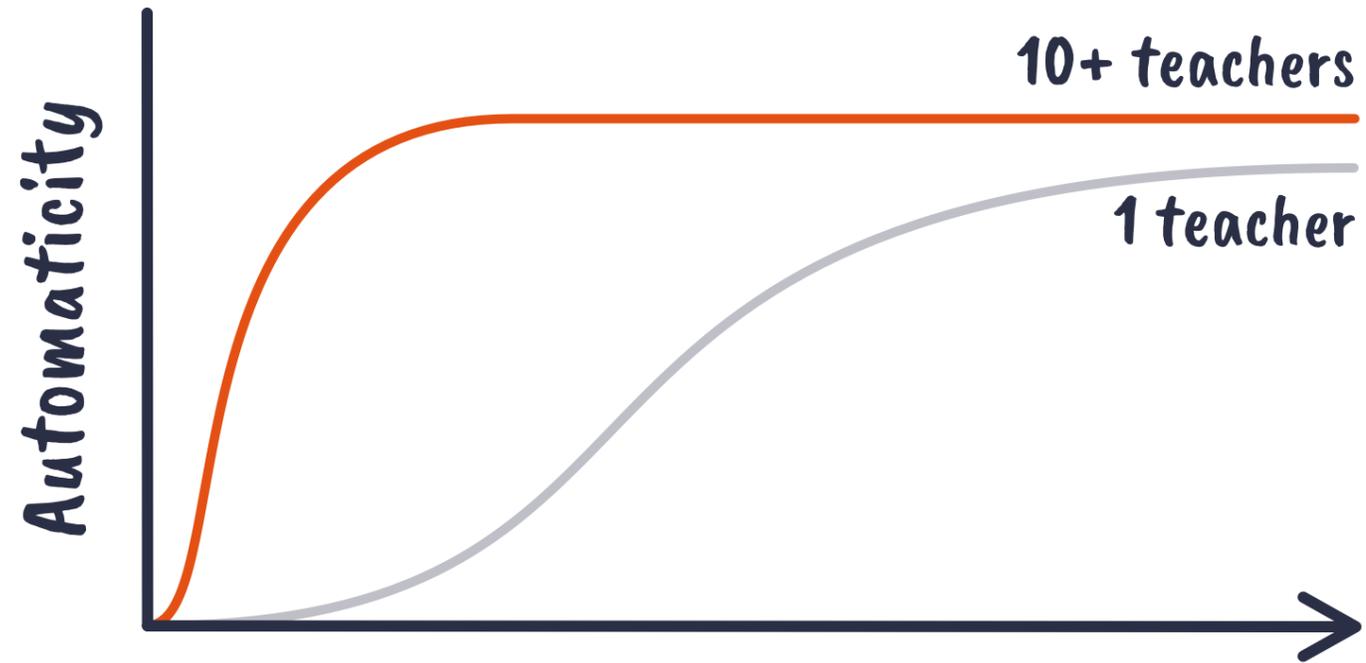
After



Source: Clear (2008) Atomic Habits



(Gardner et al., 2012)



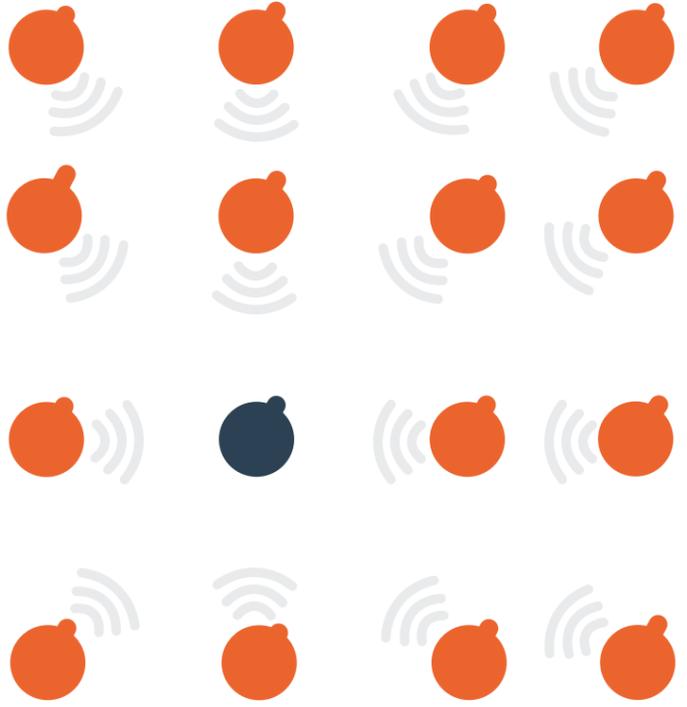
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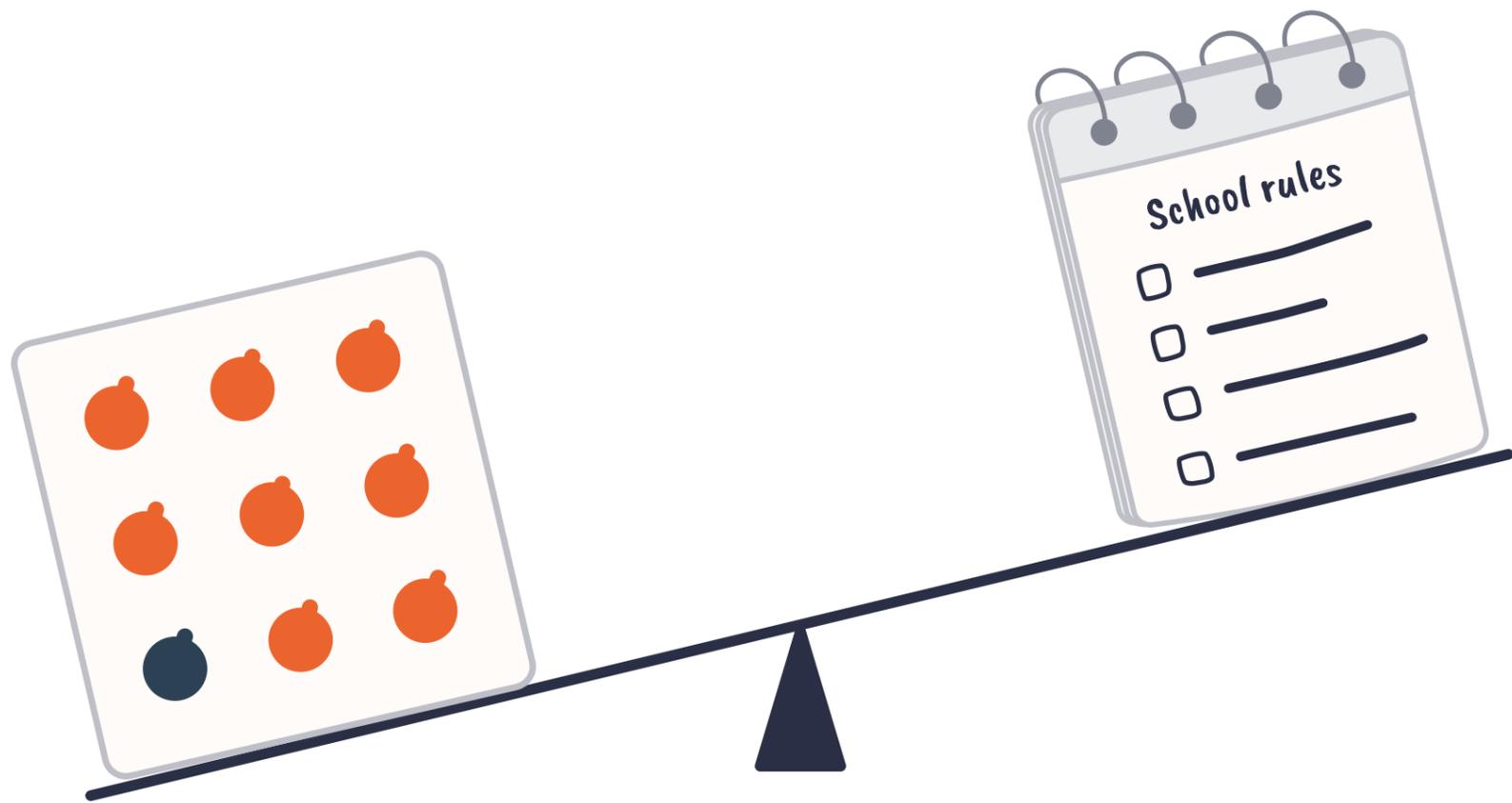
2. Ratio

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4. Norms

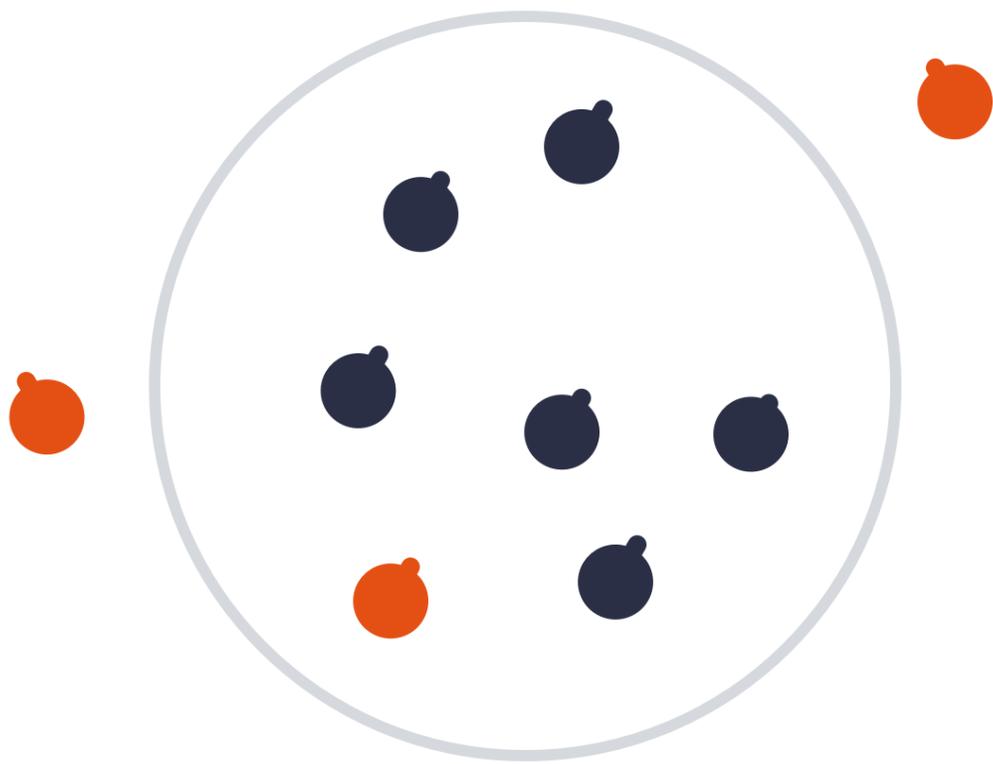
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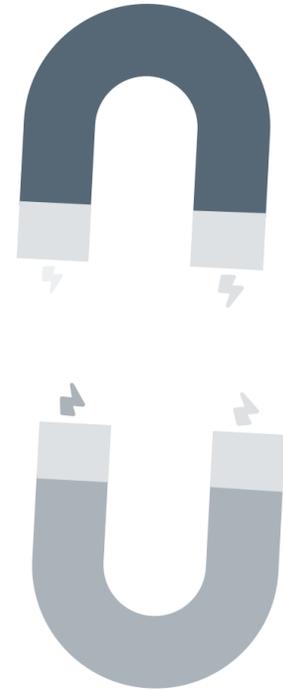
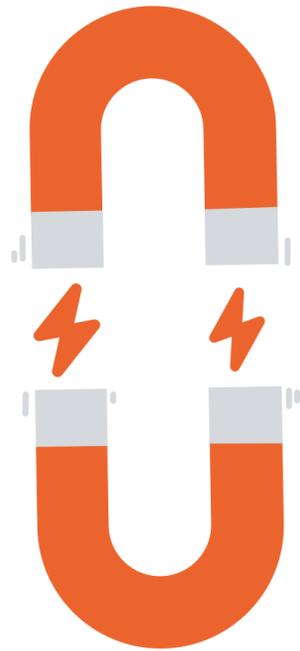


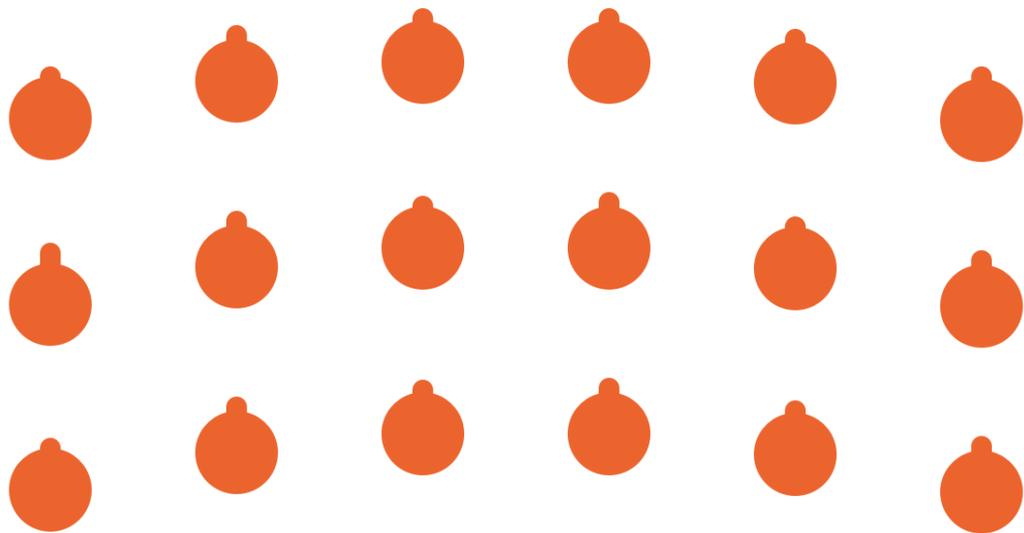


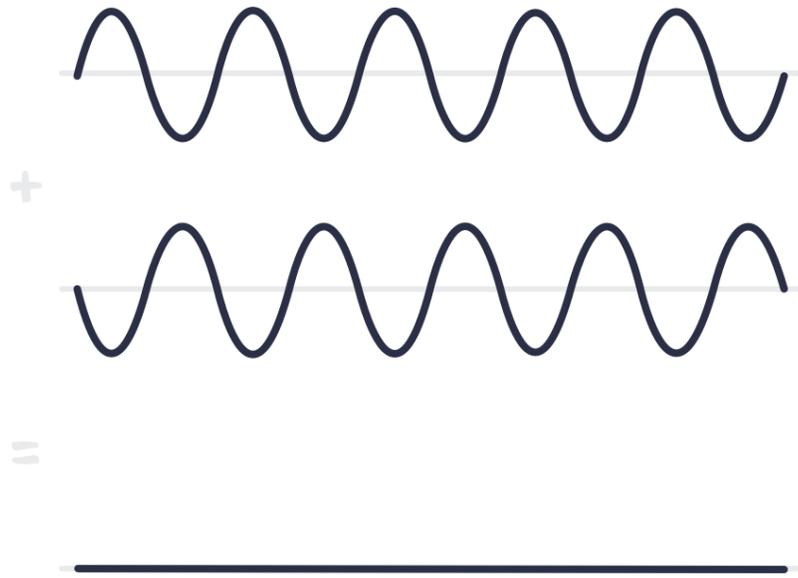




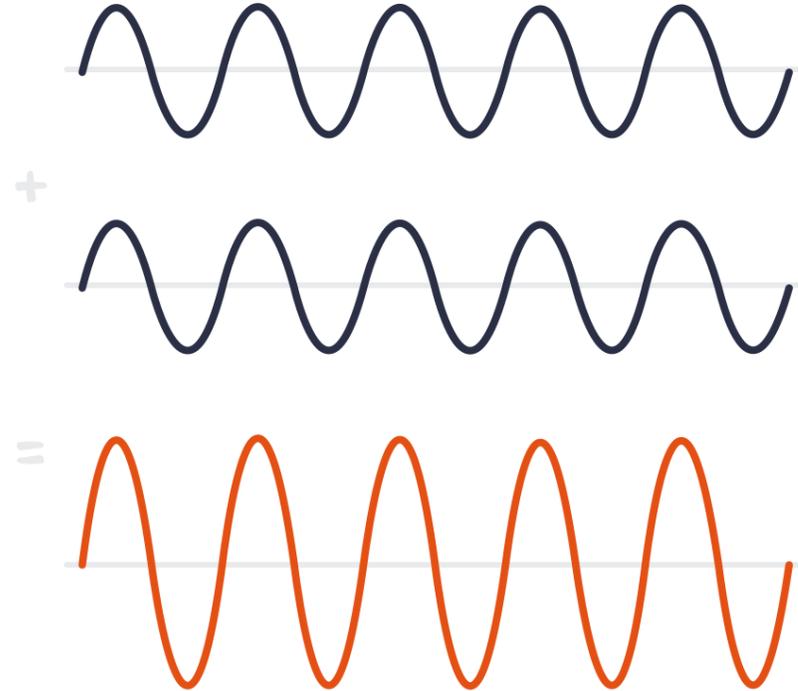








Misaligned



Aligned

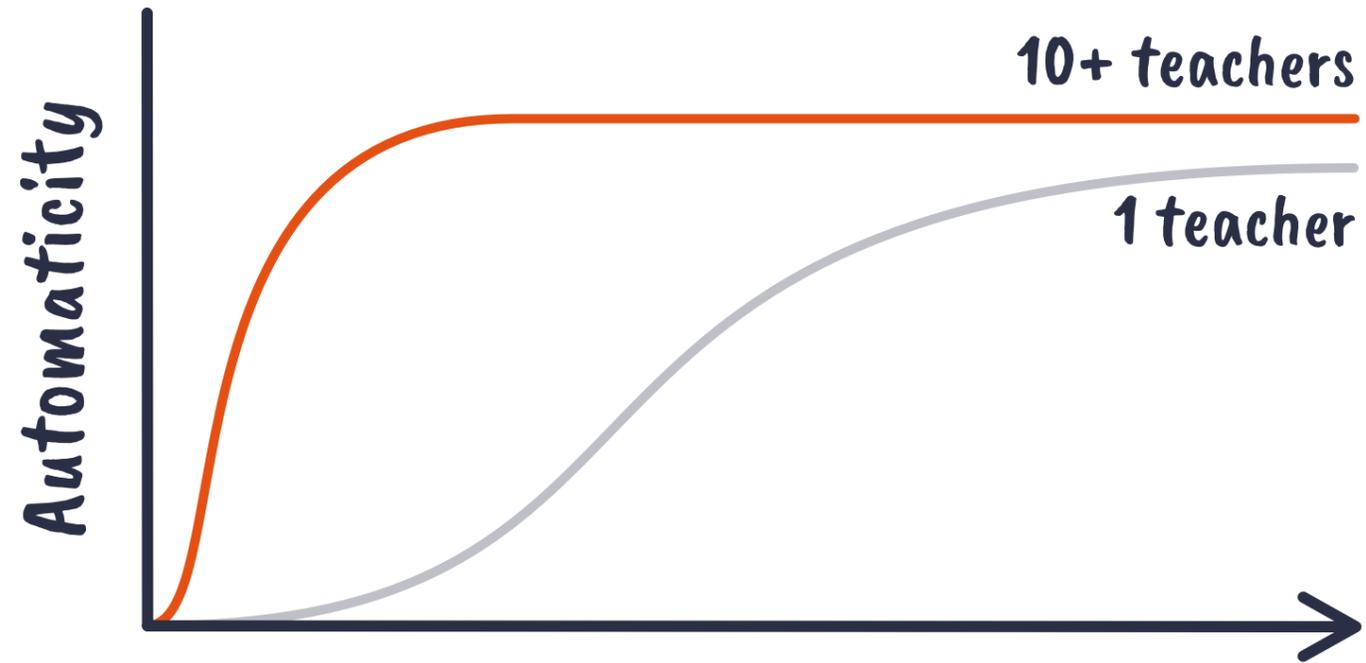
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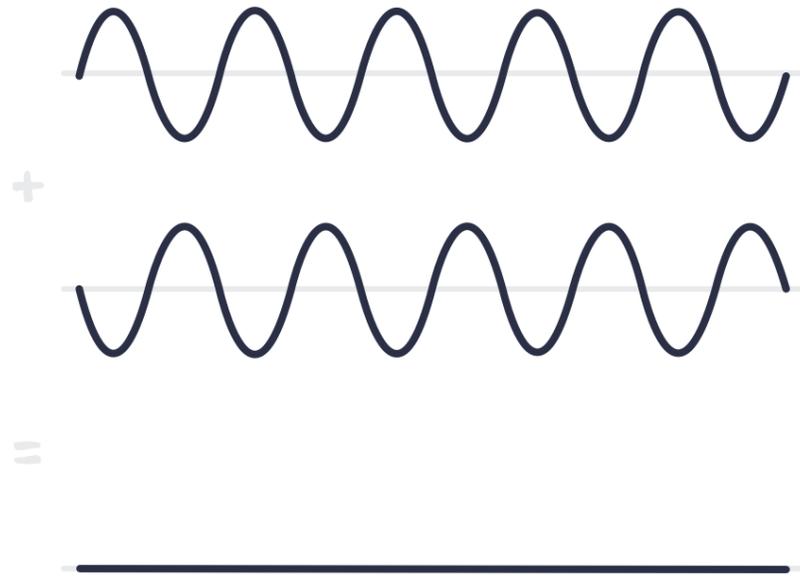
2. Ratio

3. Routines

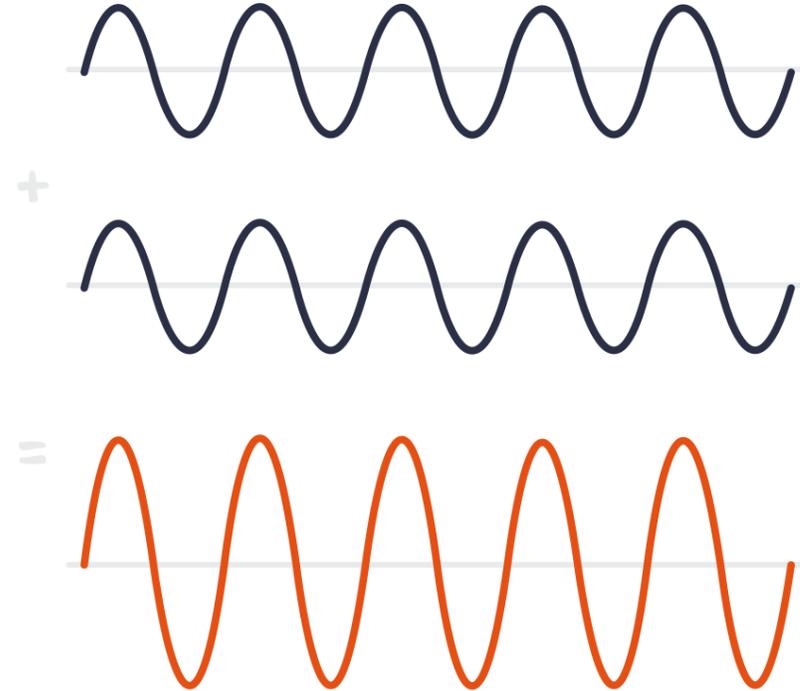
4. Norms

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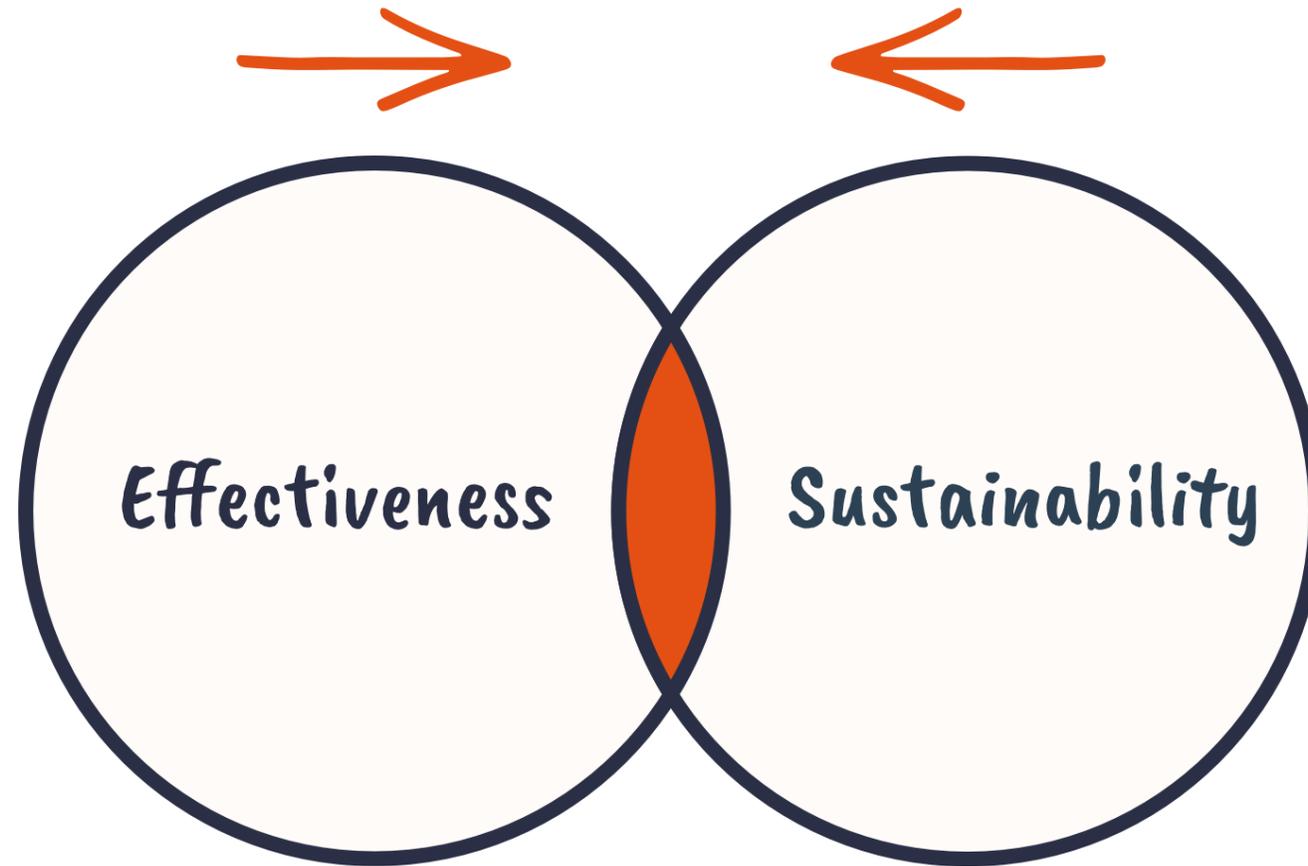




Misaligned



Aligned





Summary

1. Teaching is important but unintuitive—evidence can shore up our experience
2. **Distractions, ratio, routines, norms & alignment** are more powerful than we tend to assume—they are *high impact*
3. (Not only for student learning, but for belonging, equity & workload too 🦹)

