

The Self in Supporting Self- regulated Learning

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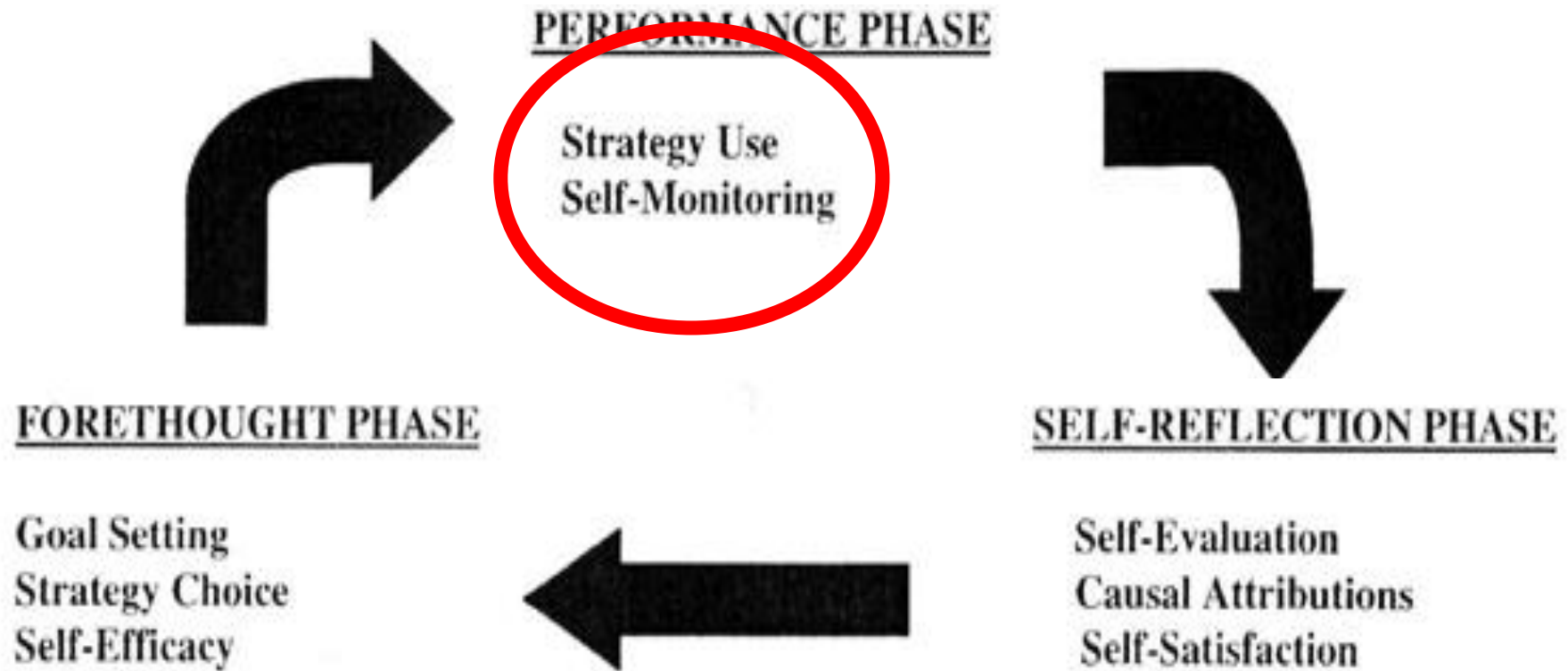
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Self-regulated learning



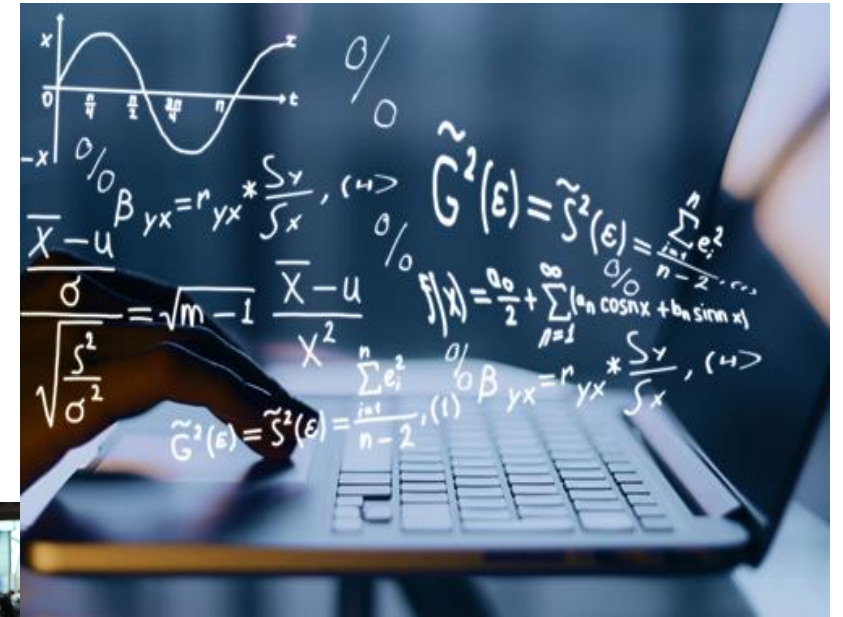
Easier seen than done



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Kardas, M., & O'Brien, E. (2018). Easier seen than done: Merely watching others perform can foster an illusion of skill acquisition. *Psychological science*.



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Can we support SRL?

Yes we can

Table 1 Features of the video modeling examples

Example #	Model	Complexity level	# Steps correct/self-assessment	Effort	Task-selection
1	Female	Level 1	5 Steps	2	+2
2	Male	Level 1	5 Steps	5	+1
3	Female	Level 2	4 Steps	7	0
4	Male	Level 2	3 Steps	8	-1



Eyelash length

The length of your lashes is determined by a gene, with long lashes being dominant (W) to short lashes (w).

Two parents are expecting a baby. Father has long lashes and is heterogeneous. Mother has short lashes and is homogeneous.

What are the possible genotypes for their child?

1. father: Ww
mother: ww



3. deductive
1 cross table

4

	w	w
W	Ww	
w		

(e.g., Raaijmakers, Baars, Schaap et al., 2018; Raaijmakers, Baars, Paas et al., 2018)

Generation strategies to support self-monitoring

- Delayed keywords (e.g., Thiede et al., 2005)
- Delayed summaries (e.g., Thiede & Anderson, 2003)
- Self-explaining (e.g., Griffin et al., 2008)
- Concept maps (e.g., Thiede et al., 2010)
- Completion problems (e.g., Baars et al. 2013)
- Practice problems (e.g., Baars et al. 2018)
- Diagrams (e.g., Van Loon et al., 2014)
- Drawing (e.g., Thiede et al., 2022)

Online Self-Regulated Learning



Image from <https://www.smartbuilder.com/servicesold/what-is-effective-elearning/>

Can we support SRL online?



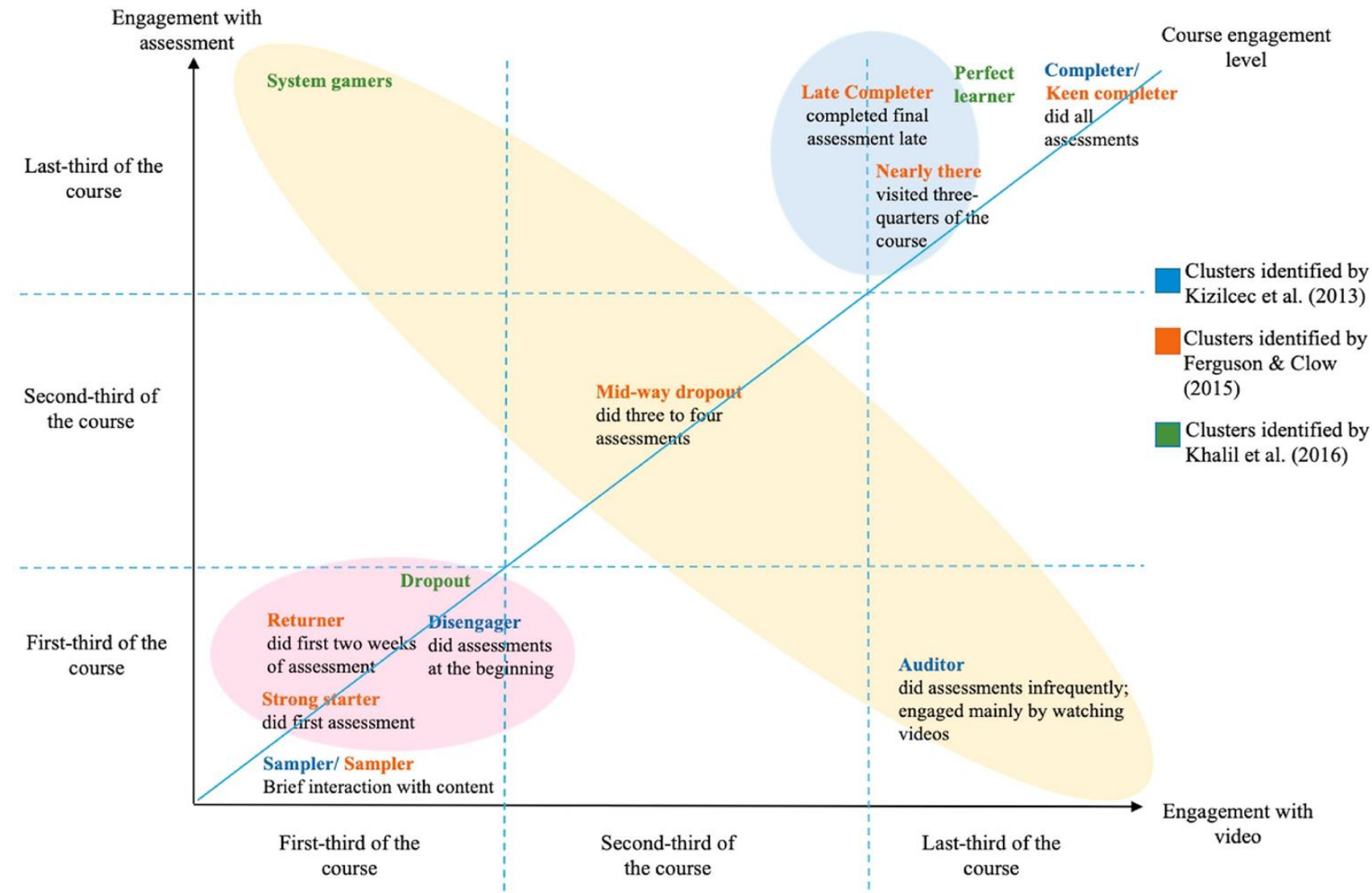
Yes we can

Table 2. Summary of approaches and number of studies reviewed across approaches.

Approaches	Number of studies
Prompts	14
Feedback	2
Prompts and Feedback	4
Integrated Support Systems	10
Other approaches	
Self-monitoring form	1
E-journal	1
Training	2
Conceptualization of learning outcomes	1

(from Wong et al., 2019)

Clustering Learners in MOOCs



ASKING QUESTIONS TO INCREASE LEARNING

1. PLANNING
2. MONITORING
3. REFLECTING



- NOT AT ALL
- SOMETIMES
- NOT SURE
- MOST OF THE TIME
- ALL THE TIME



3 QUESTIONS

- 1 Am I setting goals to ensure that I have a good understanding of the course materials?
- 2 Am I concentrating on learning the materials in this course?
- 3 Do I understand all the key points of this week's course materials?



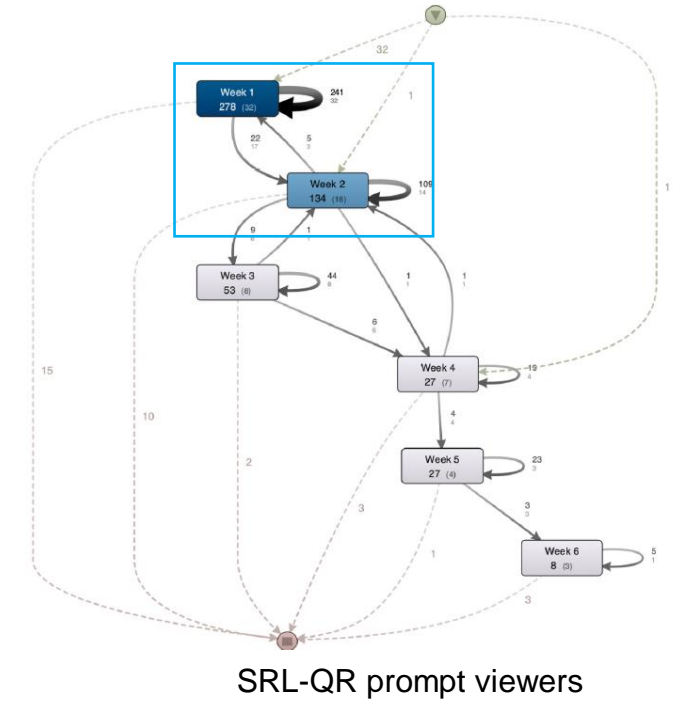
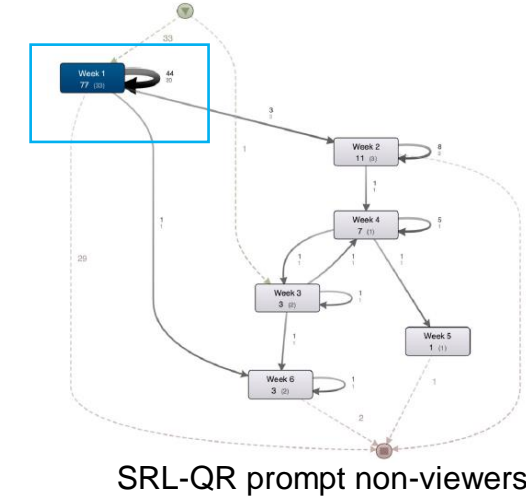
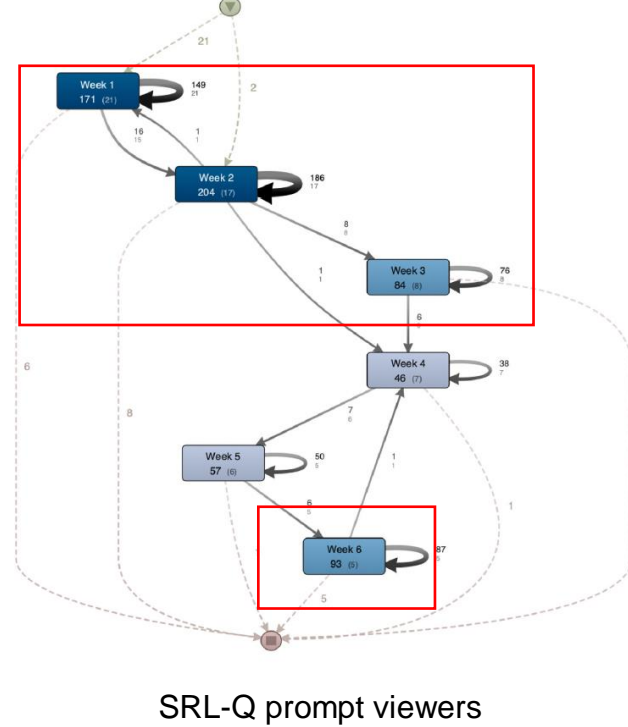
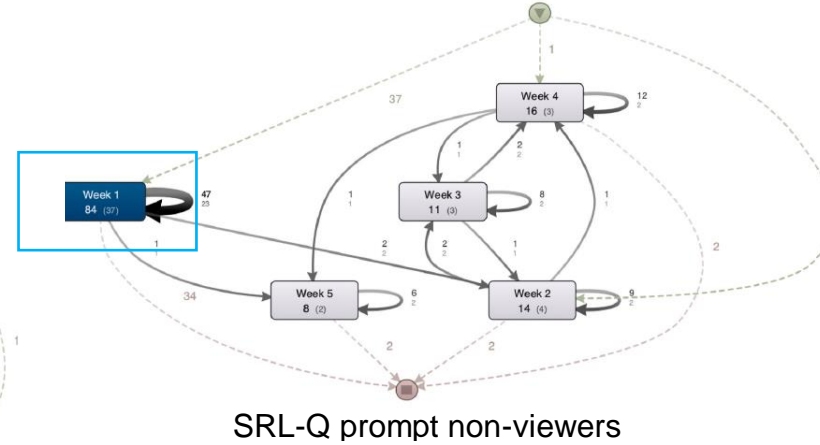
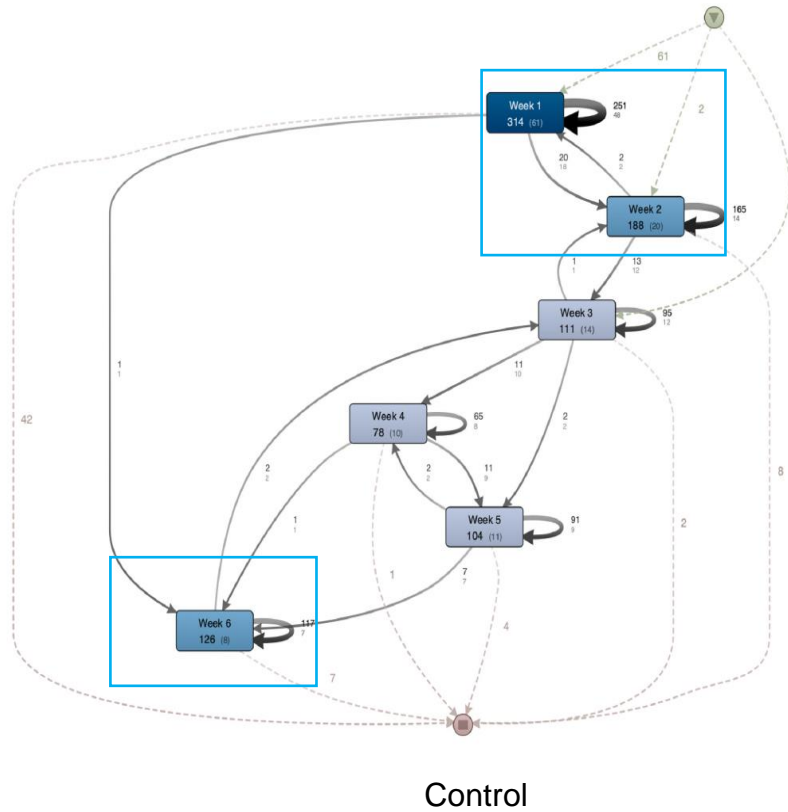
3 TIPS

- 1 Set clear learning goals on what you want to learn and make plans to achieve them.
- 2 Choose a time and location without distraction when studying for this course.
- 3 At the end of your learning session, think about what you have learned in the course for this week.





Process Mining: course activities completed on time across weeks



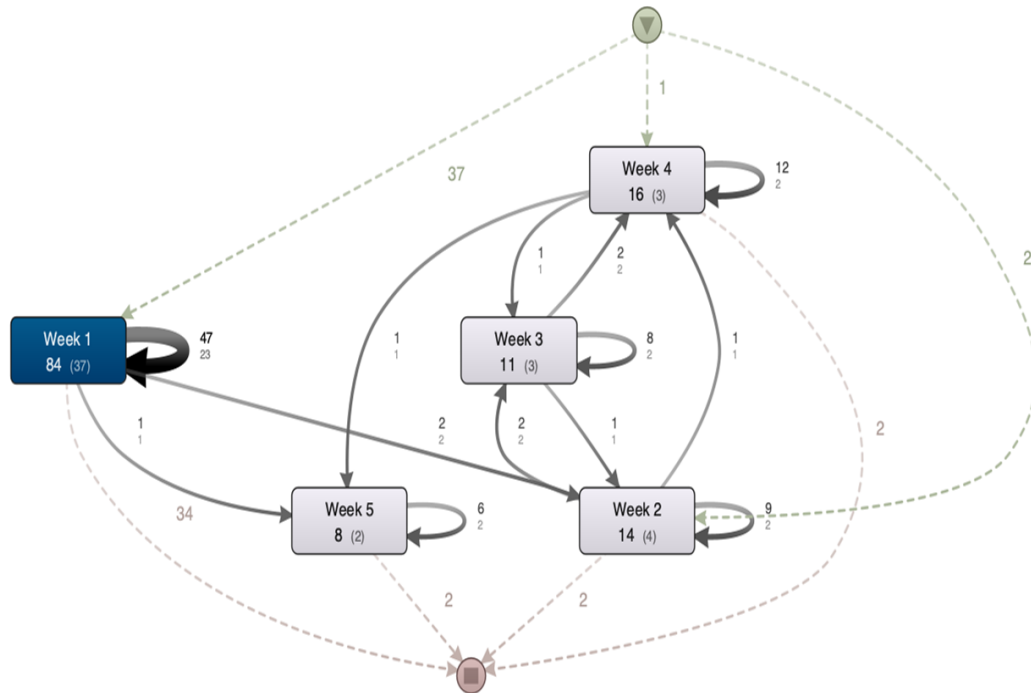


Figure 3b. Process map of SRL-Q prompt **non-viewers** completing course items on time in the SG MOOC

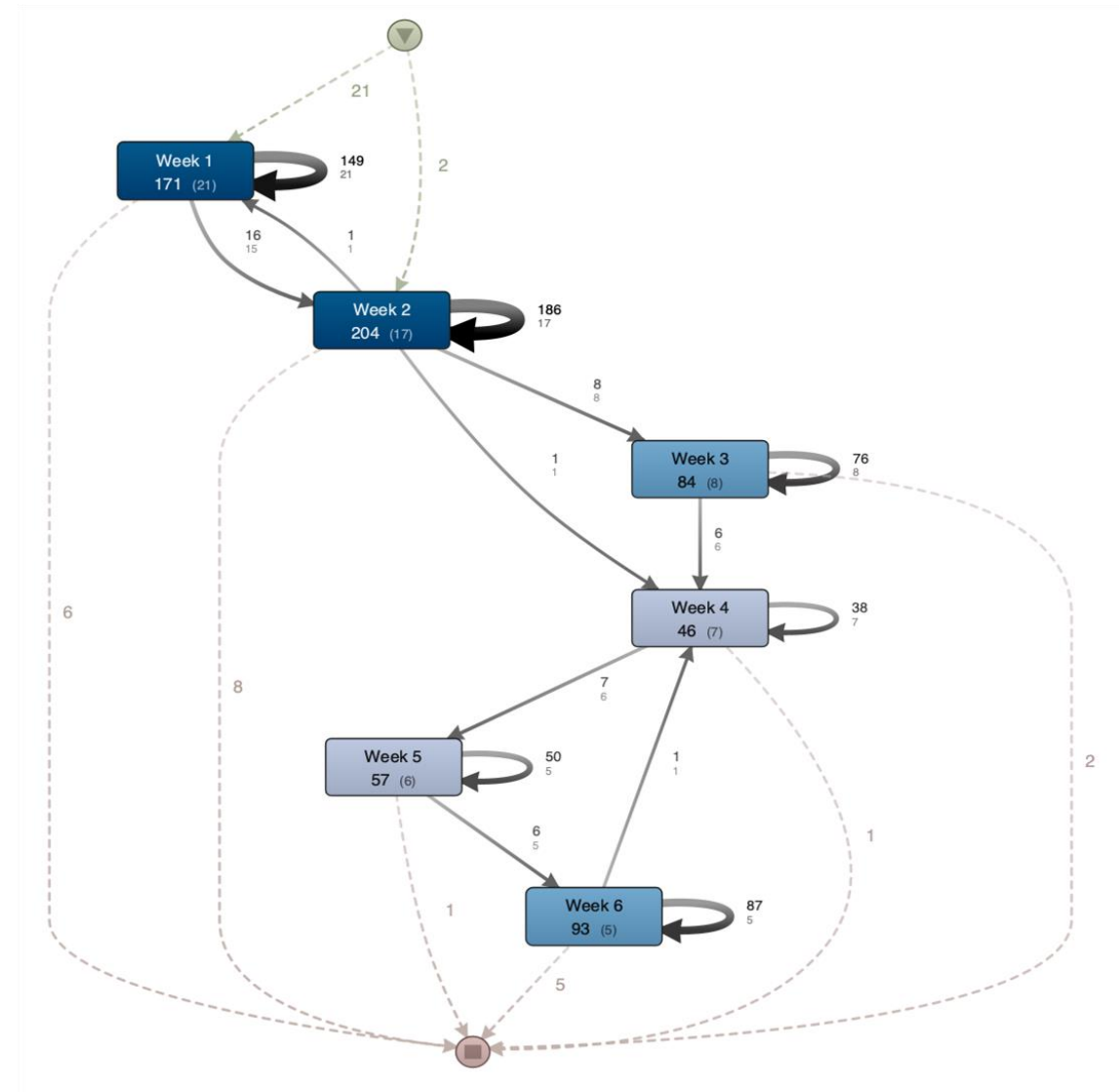
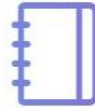
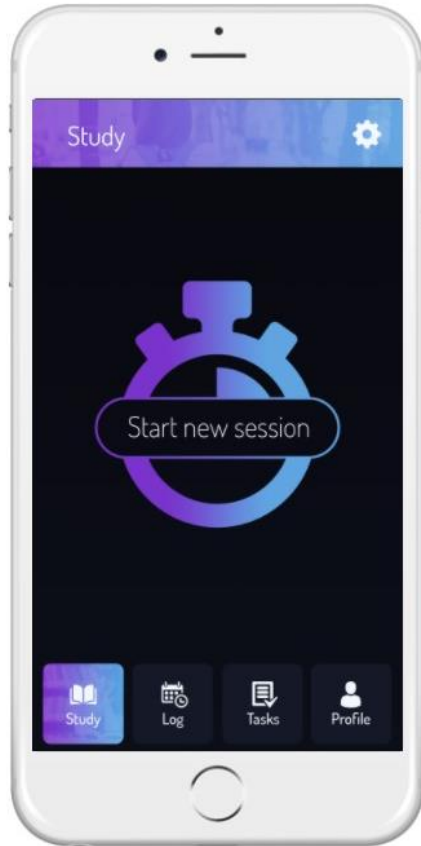


Figure 3c. Process map of SRL-Q prompt **viewers** completing course items on time in the SG MOOC

SRL-prompt viewers

The Ace your self study app



Study Strategies

Choose from 20+ study strategies.



Study Log

Keep track of your study sessions.
Learn what strategies best suit you.



Study Sessions

Customize your own study session by
selecting your study task, strategy, and
goal.

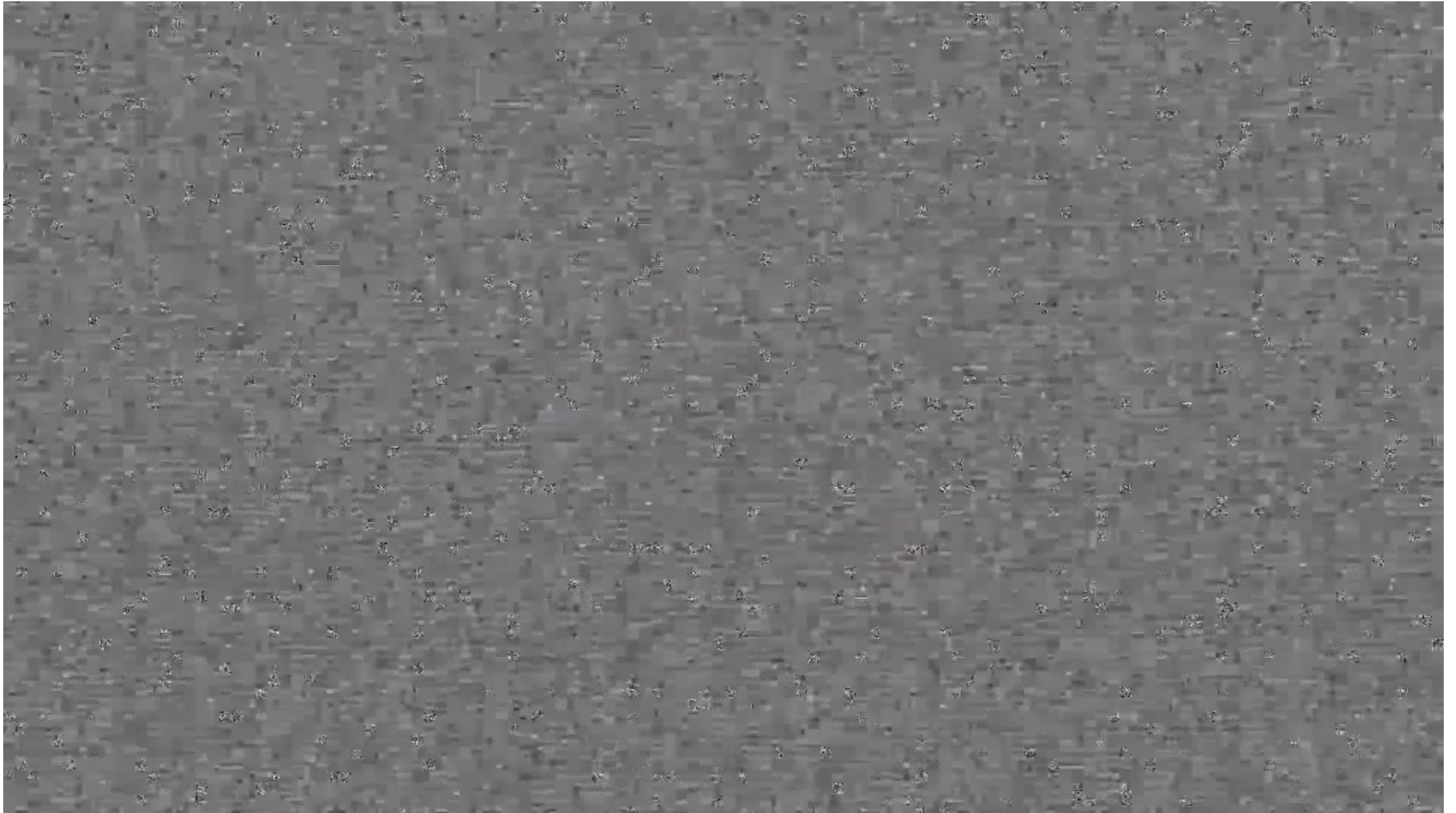


Easy to Use

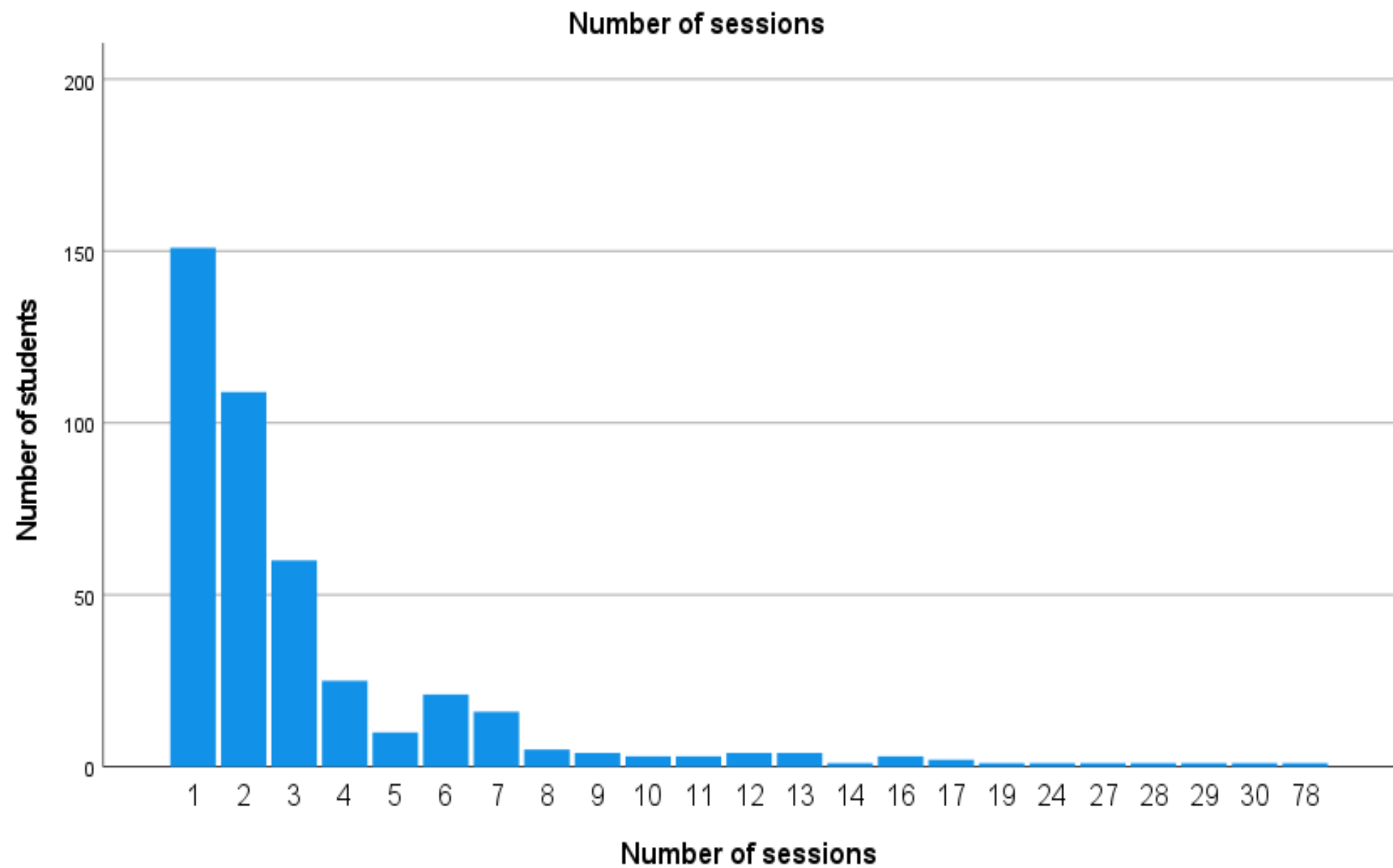
Start, setup and stop sessions as
needed. Is a study strategy not
working? Start up a new session.

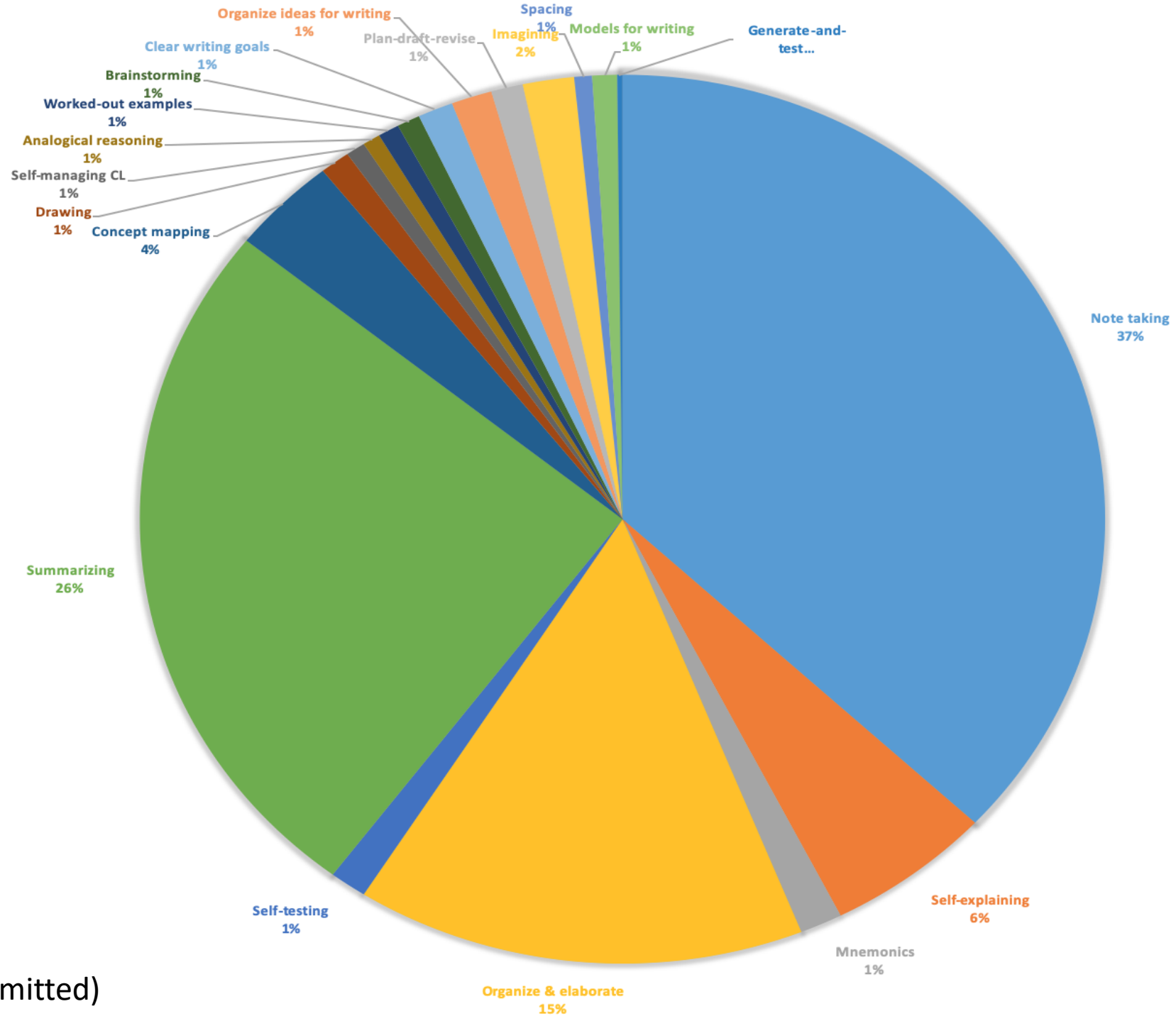


Get the app



(from Baars et al., submitted)





(from Baars et al., submitted)

Focus groups: using the app

“I only used the app twice because my study methods work just fine”

“It was not clear to me why I should use the app”

“If I would have bad grades, I would definitely use the app more”

“I only used it right before the exam”

Focus groups: using strategies

“If I would receive really bad grades although I study really hard, I would like to try new methods”

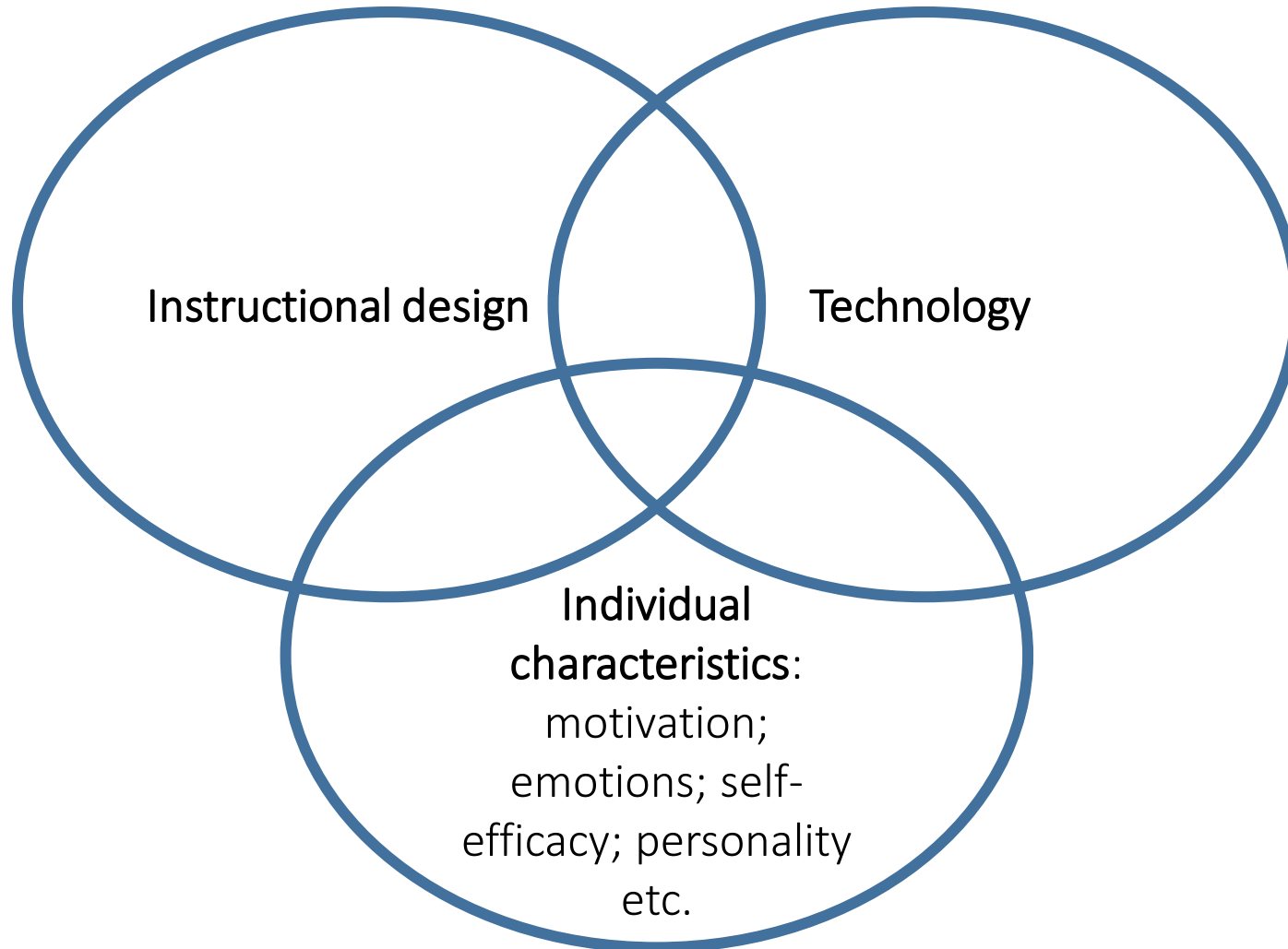
“The strategies in the app, are really time consuming. If there was no time pressure I would try new ones for sure”

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Instructional design, technology and individual characteristics meet





Thank you

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