



What is micro-learning?



Micro-learning is a delivery of learning sessions or activities of shorter duration than traditional teaching delivery.



Dr. Theo Hug, 2002

What you will learn in 15 minutes



- What is micro-learning
- How long should it take and why
- When to use it and when to avoid
- What design principles to use

...and get a little surprise 📺

Micro-learning

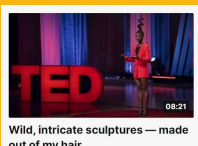


✂ Short learning / training session

🎯 Specific information and skills

📺 Various formats

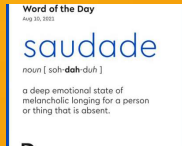
What is micro-learning?



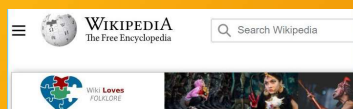
1



2



3



4



How long should micro-learning take?



Type your answer in the chat





Micro-learning should take up to **10 minutes**

Benefits of micro-learning

- Learn on the go
- Solve specific problems
- Short in time
- Engaging content
- Better learning retention
- Reduces mental fatigue

Research behind micro-learning

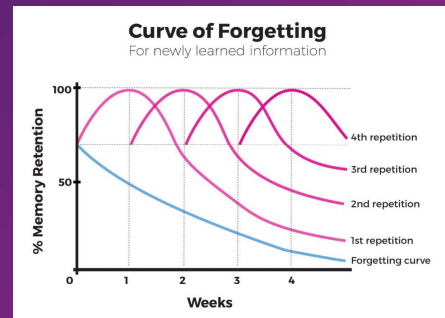
A study from the MIT:
96% online course dropout rate

A study from the University of California-Irvine:
11 min employees work on tasks before they are interrupted
25 min takes employees to return to their original tasks

A study from the University of Rochester:
9 - 12 min attention began to wander

Future of jobs report by the WEF:
50% workforce will require reskilling by 2025

Benefits of micro-learning



Hermann Ebbinghaus, Memory, 1885

Which benefits does micro-learning have for the learners?



Type your answer in the chat

When to avoid micro-learning

- Teaching complex ideas
- Mastering a new topic

Design principles of micro-learning

NEW VOICES

- What?** -> valuable content
- Why?** -> clear instructional purpose
- How?** -> appropriate length and structure
- When?** -> appropriate timing
- Delivery?** -> contextually appropriate format
- Variety?** -> choice of appropriate interactivity

Dr. Nidhi Sachdeva, 2003



Surprise time

NEW VOICES



Micro-learning refresher



Jane Kaskova, LinkedIn

macmillan
education

Key takeaways

NEW VOICES

- Micro-learning should be **concise** and cover **1 or 2 objectives**
- Duration is up to **10 minutes**
- Use micro-learning for **specific skills** or as a **refresher**
- Avoid micro-learning when presenting **complex ideas** or **new topics**
- Follow **design principles**

References

NEW VOICES

1. Buchem and Hamelmann (2010)
2. Lindner (2006) and Schmidt (2007)
3. Downes, (2005)
4. Memory, Hermann Ebbinghaus (1850)
5. Sachdeva, N. (2023). *Designing evidence-informed microlearning for graduate-level online courses* [Doctoral dissertation, University of Toronto]. University of Toronto T-Space Repository <https://tspace.library.utoronto.ca/handle/1807/127866>
6. Romanenko, Yulia & Solodovnikova, Ekaterina & Maksimenko, Nadezhda. (2023). *Microlearning as a new method of teaching soft skills to university students*. Frontiers in Education.
7. Hug, T. (2007). *Didactics of Microlearning*. Münster: Waxmann Verlag Co.
8. Hug, T. (2010). Mobile Learning as 'Microlearning': Conceptual Considerations towards Enhancements of Didactic Thinking. *International Journal of Mobile and Blended Learning Journal*, 2(4), 47–57. <https://doi.org/10.4018/ijmbi.2010100104>
9. Hug, T. (2005). Micro Learning and Narration Exploring possibilities of utilization of narrations and storytelling for the designing of 'micro units' and didactical micro-learning arrangements. In: *Online proceedings of the International Conference 'Media in Transition 4: The Work of Stories' at the M.I.T. in Cambridge (MA), USA, May 6-8, 2005*.