

Study skills CHEM-E0100 Academic Learning Community

7.11. 2021 at 8.30-10.00, Ke2 Henna Niiva, Aalto study psychologist Henna.niiva@aalto.fi

Program for today

- Elements of successful learning
- Learning technique that works
- How to use the most effective study technique
- Wellbeing and success in studies

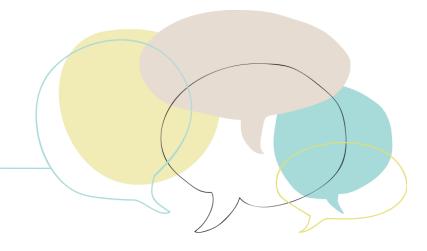
Two main references:

Dunlosky et al. (2013) Improving Students' Learning With Effective Learning Techniques Richardson et al. (2012) Psychological Correlates of University Students' Academic Performance.

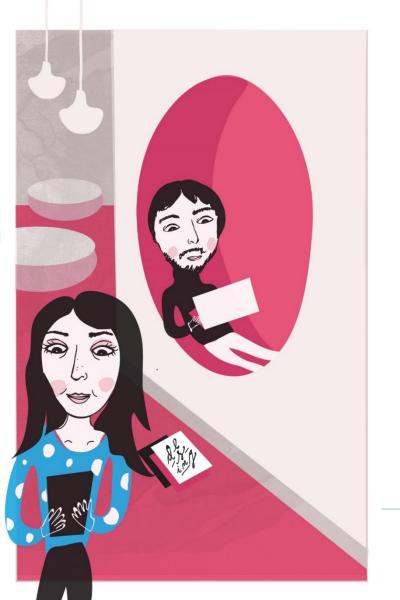


Write down (few minutes)

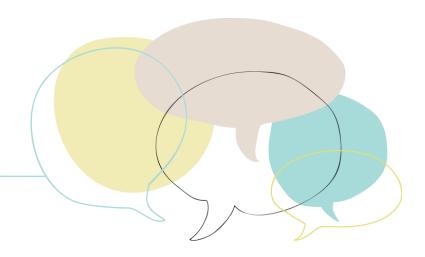
Three questions, you think you can answer at the end of this lecture.





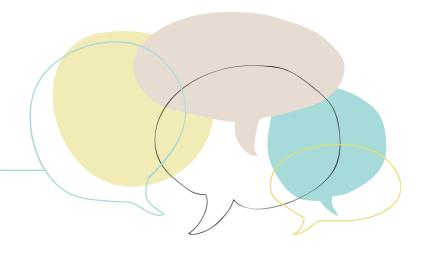


Elements of successful learning

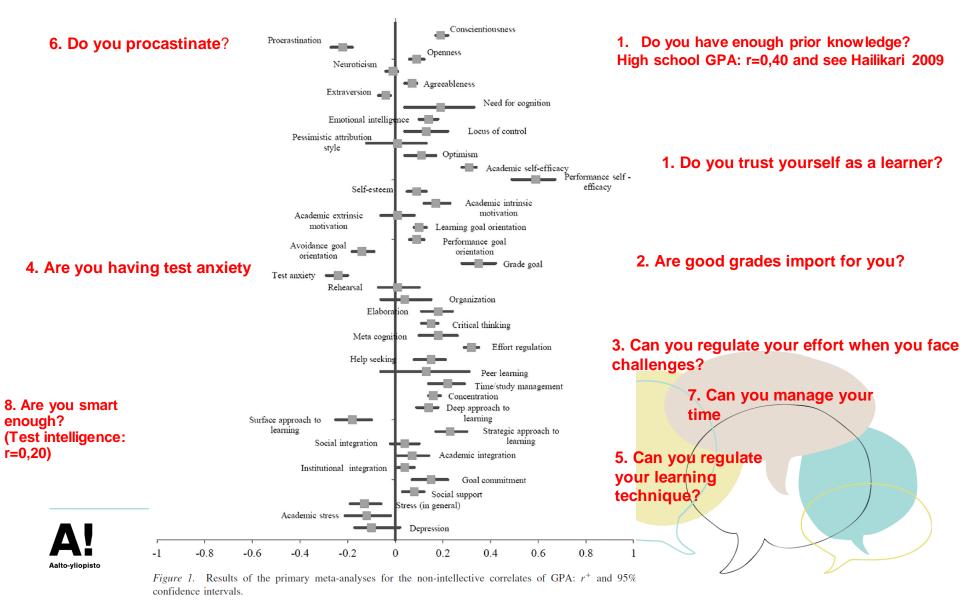


Discuss with your pair (about 3 min)

What do you think are the most important elements for successful learning? Which factors have the strongest connection with students' GPA?







Which factors are most important?

- Students prior / grouding knowledge and self-efficacy
- 2. Motivation to be or become successfull
- 3. Emotion regulation skills
- 4. Skills to regulate learning technique
- 5. Time management and being productive (not to procrastinate) skills



What is your approach to learning?

Deep approach

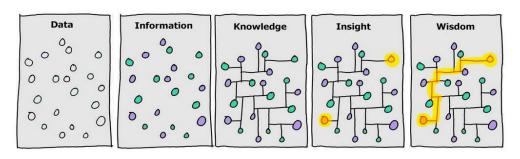
- Looking for deeper understanding
- Relating new ideas to previous knowledge

Surface approach

- Memorizing and repeating information
- Often motivated by fear of failure

Systematic approach

- Awareness of criteria
- Planning, time management



Learning technique that works

Learning technique refers here means to acquire knowlegde and skills

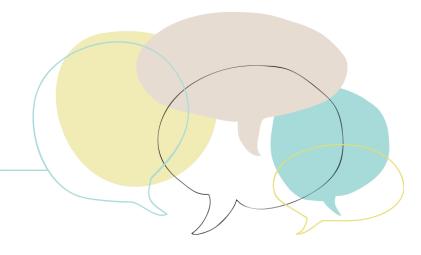
For example:

- How to read textbook so that you understand and remember the content?
- How to act on lectures to acquire new knowlegde?
- What should you do to learn to solve math problems?
- How should you act to learn to do laboratory assingment or design project?



Write down (few minutes)

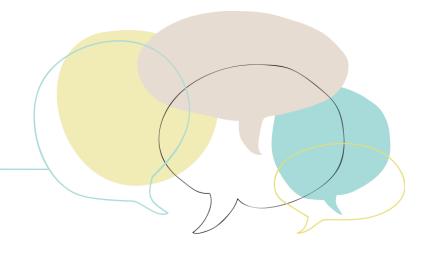
On your experience: What kind of study technique works?





Share your ideas in a small group of 3-4 students

What kind of learning technique works in your studies?





Learning technique that works

- One size does not fit all!
- Proper learning technique might depent on:
 - Person and his/her characteristics
 - Material we are learning
 - Testes or exams that evaluate learning

Common to good techniques is that they make students to personally think and work hard. Common to bad techniques is that they give possibility to avoid intellectual effort.



Reflection is a key to become an effective learner

Ask yourself:

- Where do I study best? Does it differ depending on the task?
- What is my prime time for focusing? Can I use it for the hardest tasks?
- Does it help me to make notes on a lecture? What kind of notes?



The most effective study techniques

Technique

- 1. Practice testing
- 2. Distributed practice
- Elaborative interrogation
- 4. Self-explanation

How to use it?

- Make short exams for yourself and answer them!
- Study less in many days, not long session in one!
- Ask why / how questions and make explanations!
- Write or talk what new have you learned!



How can you use these techniques in practice in your studies?

Discuss in small groups and write down (10 min):

Technique:

- 1. Practice testing
- 2. Distributed practice
- 3. Elaborative interrogation
- 4. Self-explanation





Wellbeing and success in studies





AllWell?2018: Stress Level and Performance



Avoidance behavior, for example alcohol, food, Netflix

Worrying about the past or the future, not living in the present moment

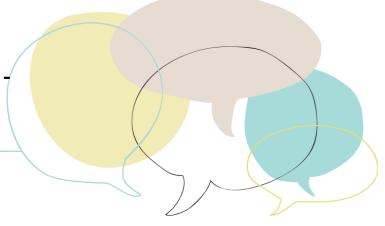
Not knowing what is truly important for you

Psychological inflexibility

Acting according to impulses without a goal or being very passive

Taking your thoughts as facts and giving them a lot of power to affect behavior

Keeping up negative self image





Accept your emotions and thought and things you can't change

Mindfulness- live in the present moment

Values- find out what is important for you

Psychological flexibility

Act according to your values

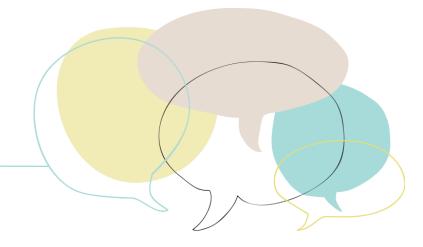
You are not your thoughts- free yourself from the power of your thoughts

Healthy self-image, let go of negative selfimage



Can you answer your questions?

 Go back to the questions you wrote down at the beginning of the lecture. Write down answers to the questions if you can.





Study and career counselling psychologist services

- Starting Point of Wellbeing: <u>Starting Point of Wellbeing Student life</u> <u>Into (aalto.fi)</u>
- Individual appointment (remotely or face-to-face) with Aalto psychologist: <u>Study- and career planning psychologists - Student life -</u> <u>Into (aalto.fi)</u>
- Courses and self-study materials (e.g. time management, stress management: <u>Courses and workshops for students - Student life - Into</u> (aalto.fi)
- Information about study skills:
 https://into.aalto.fi/display/enopisk/Study+skills
- A podcast series hosted by the psychologists at Aalto University:
 The Best Thing Today podcast series | Aalto University



References and suggested learning material

- Dunlosky et al. (2013) Improving Students' Learning With Effective Learning Techniques
- ➤ Hakkarainen, Lonka ja Lipponen (2008) Tutkiva oppiminen
- ➤ Richardson et al. (2012) Psychological Correlates of University Students' Academic Performance.
- Ryti ja Uusitalo (2002) Antoisampaan opiskeluun.
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Thank you!

