

# Study skills CHEM-E0100 Academic Learning community

21.9. 2020 at 8.30-10.00, Zoom Henna Niiva, Aalto 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 and distant studying

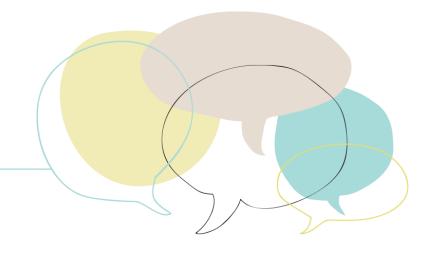
#### Two main references:

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)

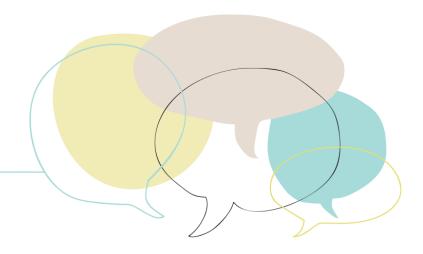
Three questions, you think you can answer at the end of this lecture.





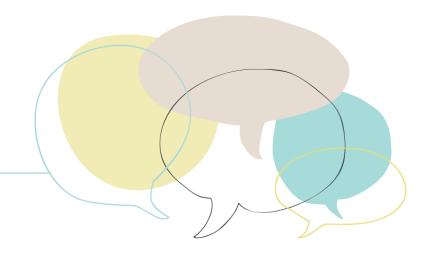


# Elements of successful learning

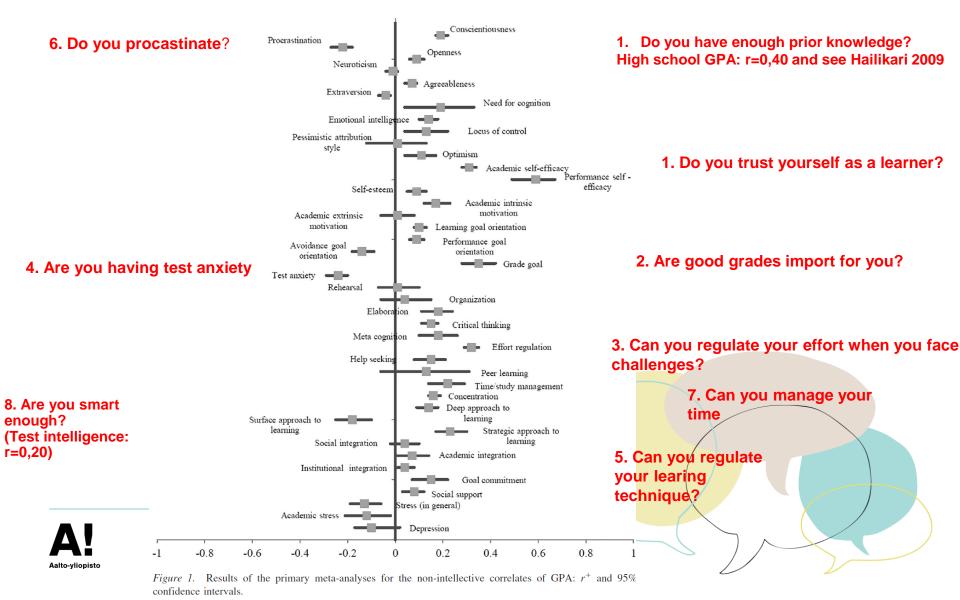


# Discuss in small groups on break out rooms (about 5 min)

What do you think are the most important elements for successful learning?







## Which factors are most important?

- 1. 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

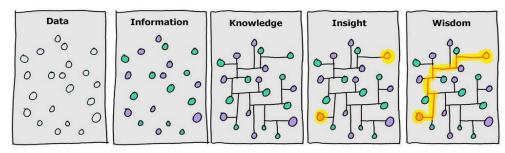
- Looking for deeper understanding
- Relating new ideas to previous knowledge

### 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

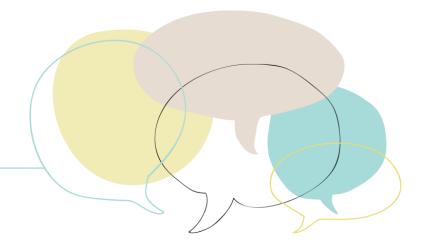
#### For example:

- 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)

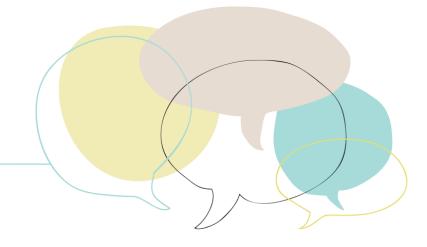
On your experience: What kind of study technique works?





## Share your ideas in chat

What kind of study technique works?





### 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 put students to personally think and work hard. Common to bad techniques is that they give posibility to avoid intellectual effort.



## 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!
- 2. Study less in many days, not long period in one!
- Ask why / how questions and make explanations!
- 4. 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 to Flinga (10 min): <a href="https://flinga.fi/s/FPKHTEP">https://flinga.fi/s/FPKHTEP</a>

### **Technique:**

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







Attend lectures

Reading the lecture slides before and after the lecture

Not being deadline oriented

reading material each week

Start studying as soon as possible when the course starts

2. Distributed practice

Using time accordingly

create proper schedule Read lecture slides before lecture course is for practice, studying for exam is for reminding

Do exercises

Read the book before the lecture -> lecture notes -> prep for lab -> prep for exam





# Wellbeing and success in studies





#### AllWell?2018: Stress Level and Performance



### How to recover from stress?

Four elements of psychological recovery:

- 1. Psychological detachment from studies/work
- 2. Relaxation
- 3. Mastery of a skill, learning new things
- 4. Control during off-studies time

How do you recover? What elements of psychological recovery are present in your free time?



### Wellbeing in distant learning

### 1. Joy and wellbeing

- Focus on things that are meaningful to you and bring you joy
- Take the time to exercise the way that suits you best remember both, your body and mind
- Try to get enough sleep
- Eat healthy food
- Most of all be kind to yourself

### 3. Teaching and learning

- Attend to remote study groups and tutoring online
- Remember that you can always reach out, ask for advice, feedback and guidance from your teacher, academic advisor and Learning services

# 2. Study habits and daily rhythm

- Create a daily study schedule with enough breaks
- Sometimes plans fail -try to accept it and try again
- Set small and clear goals that keep you motivated
- Focus on one thing at a time be mindful and avoid interruptions. For example, try putting your phone in an airplay mode when you study
- Make your studying space as cozy as possible

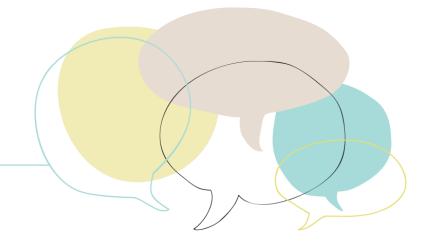
### 4. Aalto Community

- Schedule video study groups with your peers
- Schedule online social time with your peers
- Set shared goals with your peers and set rewards for work completed
- In addition to being kind towards yourself, be kind and non-judgmental towards others



# 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.





# The Psychology Service at Aalto University

- Individual appointment (remotely or face-to-face) with Aalto psychologist, opintopsykologi@aalto.fi
- Career counselling psychologist supports students in matters related to career and life planning and transition to work. You can contact career counselling psychologist by e-mail careercounselling@aalto.fi.
- Advice line for psychologists: +358 29 44 20080 (weekdays 9-15), contact information for other services: https://into.aalto.fi/display/enopisk/Starting+Point+of+Wellbeing
- Courses and self-study materials (e.g. time management, stress management) <a href="https://into.aalto.fi/pages/viewpage.action?pageId=328008">https://into.aalto.fi/pages/viewpage.action?pageId=328008</a>
- MyCourses site: Psychological support for Aalto students during corona-outbreak (Aalto psychologists services): <a href="https://mycourses.aalto.fi/course/view.php?id=26856">https://mycourses.aalto.fi/course/view.php?id=26856</a>



## Allwell? Study wellbeing questionnaire

https://www.aalto.fi/en/services/allwell-questionnaire





## Study skills

https://into.aalto.fi/display/enopisk/Study+skills

'Time to Get Cracking' – Self-study material on time management:

https://mycourses.aalto.fi/course/view.php?id=23146

https://www.learningscientists.org/

https://www.oulu.fi/opiskelijalle/opiskelutekniikat



# 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. http://www.helsinki.fi/hyy/kopo/antoisampaan.pdf





# Thank you!

