

# Effective Study Skills



# **School**

# vs College

#### **School**

### College





You can't cover everything

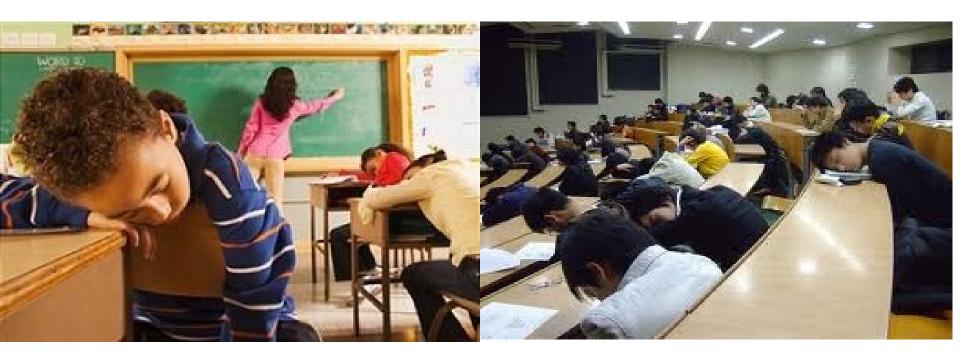
Plan in advance – have a strategy

I'm just going to the library for 4 hours....
(I'll work out what I'll study when I get there)



### **School**

### College



Dependent on teacher Homework Up to you to make college:

- -interesting
- active

# Active studying means

- Working with the material to try to build understanding
- 2. Find a way process the information in a deep and meaningful way

### How?

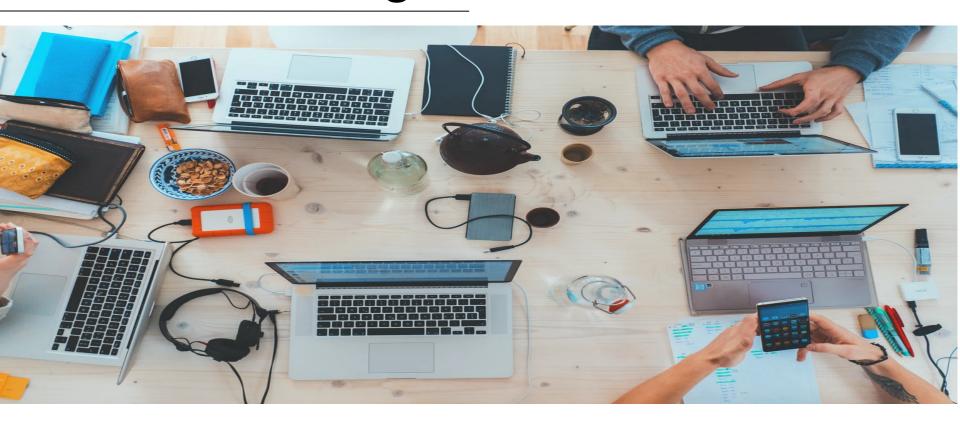
#### Have a framework

- Think about the purpose of the study task
- Consider the best way to approach it
- Reflect and review

#### **PSR**

- Purpose why?
- Strategy how?
- Review check!

# **Active Learning**



**Hands-on Learning** 

Set up a Study Group

See your subject everywhere

**Engage in Seminars** 

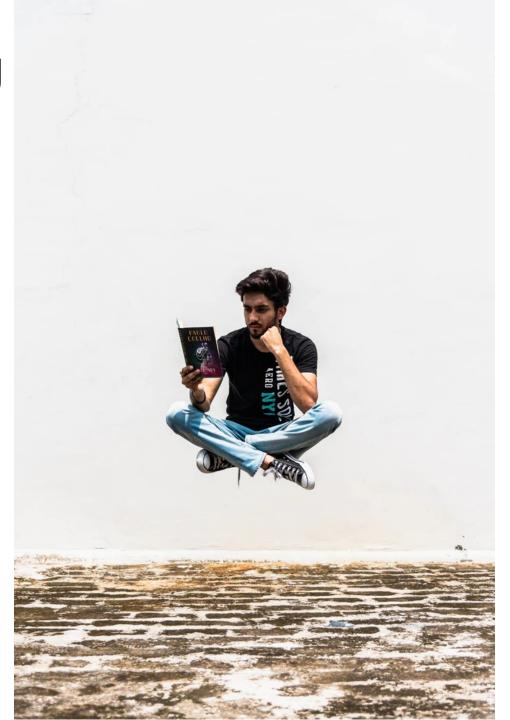
**Get to Know Staff** 

**Active Note-taking** 

# Discussion (5 mins)

- 1. How do you study (reading/notes)?
- 2. How do you read?
- 3. How do you take notes?

# Reading





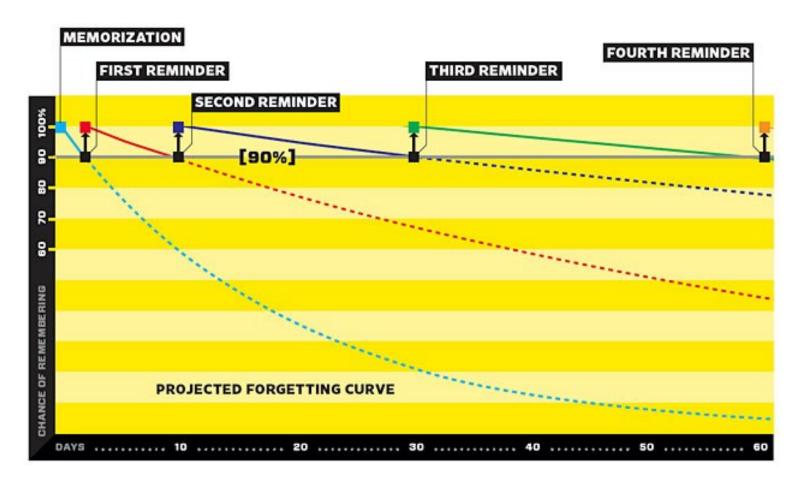
Good Reading is like Interrogation

# Get reading – actively!

### Purpose

- Strategies to suit:
  - Scanning
  - -SQ3R
  - Note making
- Review

### **Ebbinghaus Forgetting Curve**



Schedule Time for Reviews

# Get Thinking - Reading

- 1. Asking questions
- 2. What is the point of view of author?
- 3. Evaluate evidence
- 4. Forming opinions

# Being Selective

- Ask lectures/tutors what is most relevant
- Be alert for hints and clues
- Ask fellow students
- Ask students in years ahead
- Share reading
- Preview or skim before in-depth reading



#### Reading List:

Judd, C., Smith, E. and Kidder, L. 1991

Research Methods in Social Relations. 6th ed. London.
300.Jud (1 copy)

Moser, C. A. and Kalton, G. 1971

Survey Methods in Social Investigation. London.
300.723 Mos (10 copies)

Oppenheim, A. N. 1966, 1973

Questionnaire Design and Attitude Measurement. London.

011.422 Opp (3 copies)

Hoinville, G. Jowell, R. and associates. 1978 Survey Research Practice. London. 300.723 Hoi (1 copy)

Rose, G. 1982

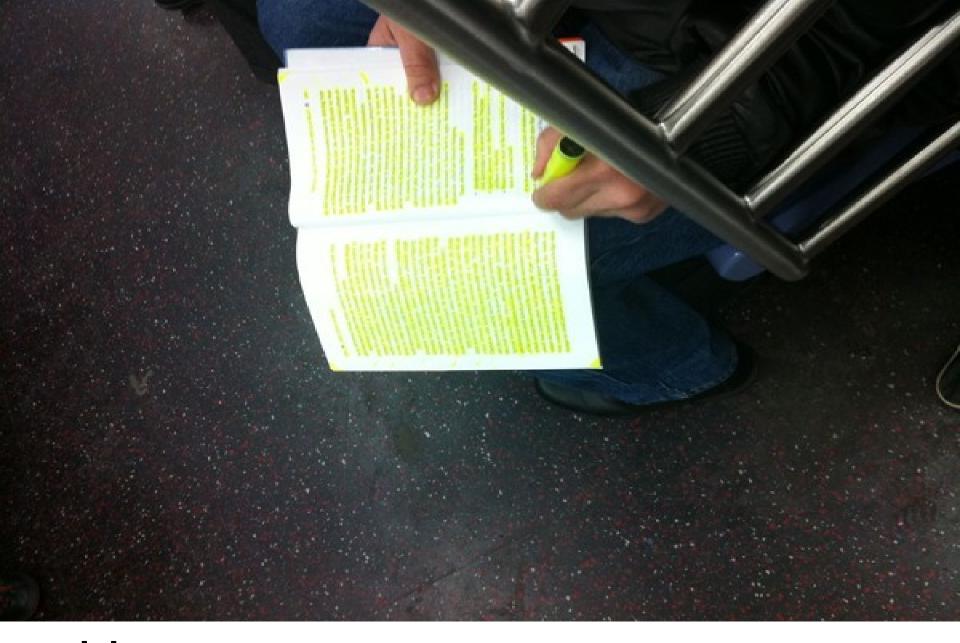
Deciphering Sociological Research. London.
301.072 Ros (4 copies)

Kurtz, N. R. 1983
Introduction to social statistics. London etc. 300.72 Kur (4 copies)

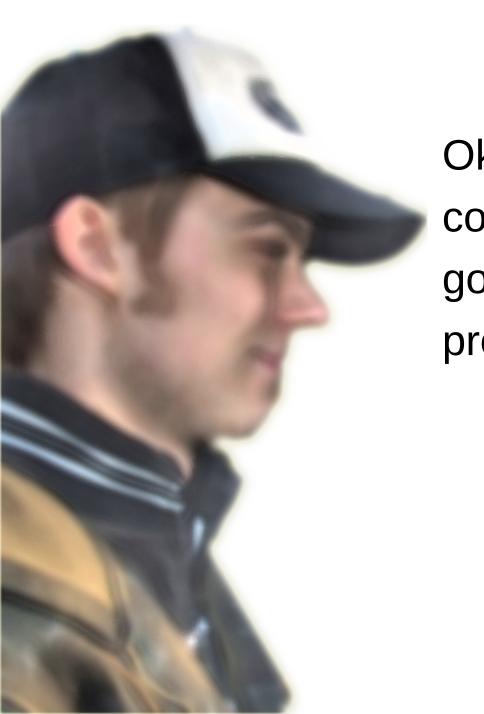
Blalock, H. M. 1960

Social Statistics. London.
301.072 Bla (2 copies)

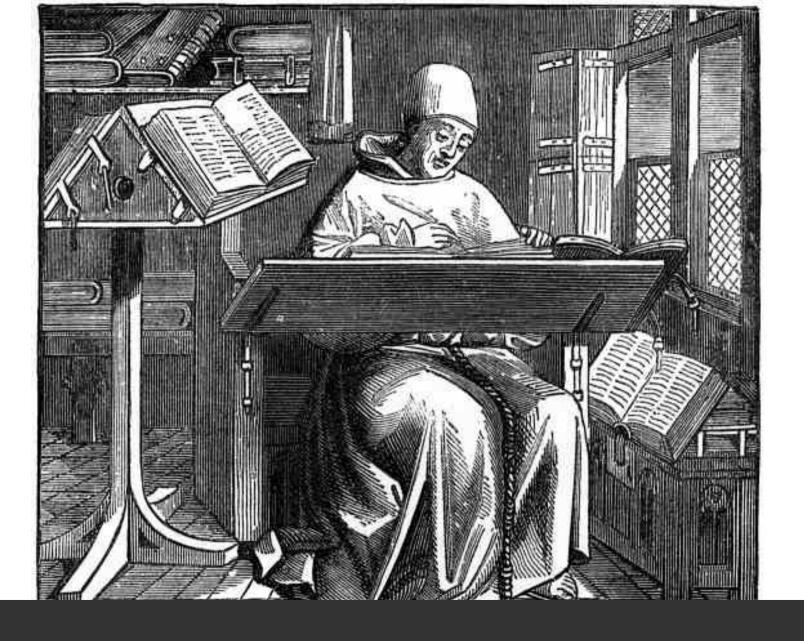
ESRI Reports: Read at least one of these research reports based on a social survey.



**Taking Notes** 



Ok, I'm finding it hard to concentrate, I'll make a good effort to make precise notes.



Perfect Copy

## Notes

Source Summary Notes Review Notes Notes Summary Notes Exams Essays



You want to be looking at questions



# Types of Notes

- 1. Prose or summary
- 2. Outline or skeleton
- 3. Mind or concept maps
- 4. Cornell or 2 Column

How do you take notes?

#### Be careful with tan-1

Summary

Because tan' returns values between  $-\frac{1}{2}$  and  $\frac{1}{2}$ , the firmula arg  $(x+iy)=\tan^{-1}(y/x)$  only works if x>0. This can cause publicus in e.g. Qs 2vi and 10 of complex Methods sheet 1.

2vi Where is  $u = \tan^{-1}\left(\frac{2\pi y}{x^2 - y^2}\right)$  harmonic and find an analytic function whose real part is u.

First we determine where it is definitely not harmonic.

Consider the lines y = ± x.

As  $(\pi_i y)$  approaches the line y = x from below  $(\pi_i y > 0)$  (see picture), we have  $\frac{2\pi y}{x^2 - y^2} \rightarrow \infty$ , so  $y \rightarrow \pm \frac{\pi}{2}$ .

If we approach from above,  $u \rightarrow -\frac{\pi}{2}$ , so u is discontinuous. Similarly in the other quadrants.

so we assume x² + y². If x = r cos 0, y = r sin 0 tuen u = tan 1 tan 20, which equals 20

provided  $-\frac{\pi}{4} < \theta < \frac{\pi}{4}$ . In this case, we can

take  $f(z) = -2i \log z$ , where

Usy  $z = \log |z| + i \arg(z)$ ,  $-\pi < \arg(z) < \pi$  is to Principal branch. Then  $f(z) = -2i \log r + 20$ , so Re f(z) = U. U is hormonic for  $-\frac{\pi}{4} < 0 < \frac{\pi}{4}$ .

If \$ < 0 < 3 hen u = 20 - T, & consider

 $f(z) = -2i\log z - \pi.$ 

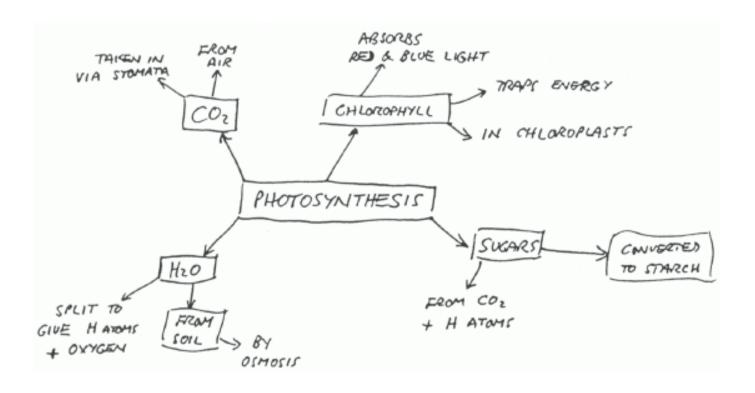
If  $3\frac{\pi}{4} < 0 < \frac{5\pi}{4}$  then since  $u(x_iy) = u(-x_i-y)$ , we can consider  $\pm(z) = -2i \log(-z) = -2i \log(z) + 2(0-\pi)$ . The case  $\frac{5\pi}{4} < 0 < \frac{7\pi}{4}$  can be treated similarly.

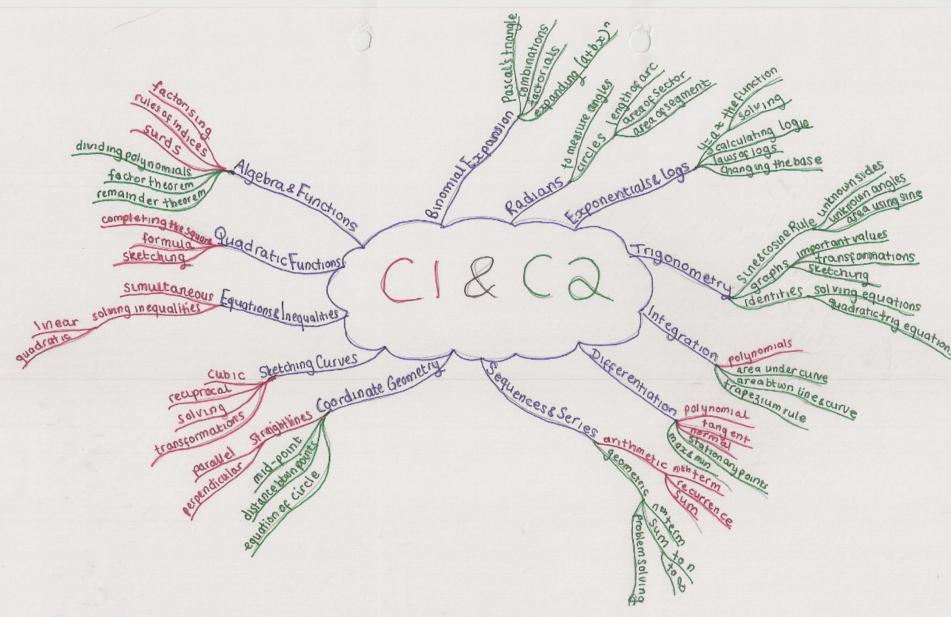
# **Outline**

#### The Art of Reading Actively

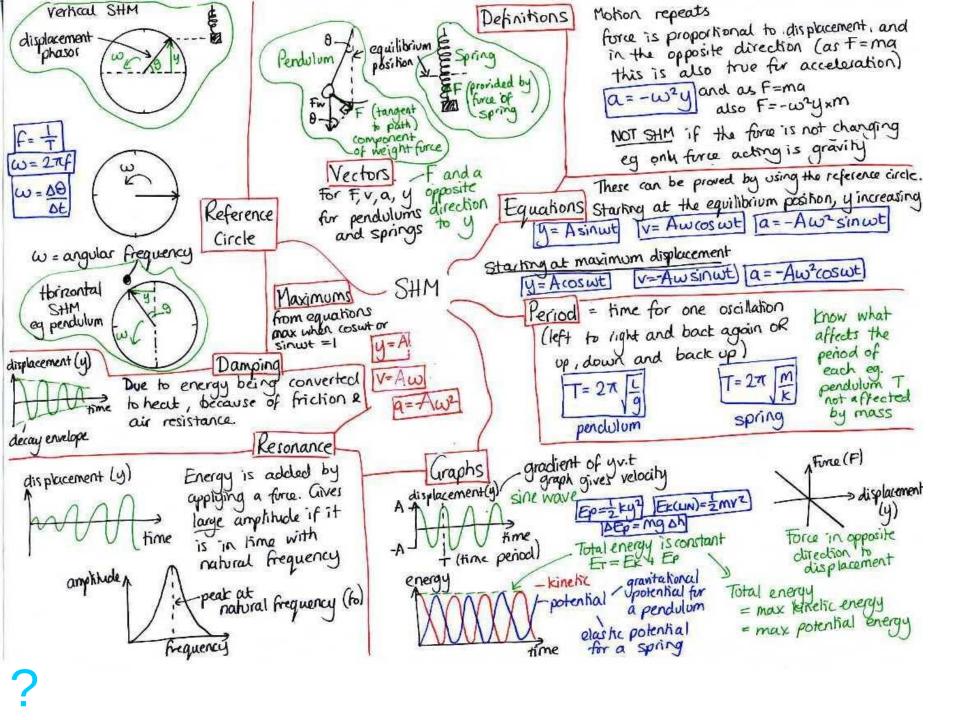
- A. Active = purposeful, critical, questioning.
- B. Look for Main Ideas
  - 1. Survey (503R) for general ones (Ch 5)
  - 2. Read paragraphs for more specific ones
    - a) Each para usually has one main idea.
      b) Usually in topic sentence (1st or last?)
- C. Look for Important Details
  - 1. e.g. proof, example, support for main idea
  - 2. Usually at least one per main idea
  - 3. Which do I consider important?
- D. In hunt for main idea and important details:
  - 1. Watch for signposts
    - a) Visual (tayout, etc)
    - b) Verbal (chie words)
  - 2. Study diagrams, etc.
  - 3. Don't ignore difficulties
- E. Evaluate the text
  - 1. Be sceptical (Expect the author to prove)
  - 2. Compare with my own experience
  - 3. What do I get from it?
  - 4. Discuss with other students
- F. Make Notes:
  - 1. If I need them (for my purposes)
  - 2. At Recall stage (of SP3R)
  - 3. Compare with other students'.
- G. Concentrate:
  - 1. By seeking understanding (not memorisation)
  - 2. and see Chapter 4 hints.
- H. Vary reading speed.
  - 1. according to purpose
  - 2. but not at expense of understanding.

# **Concept Maps**

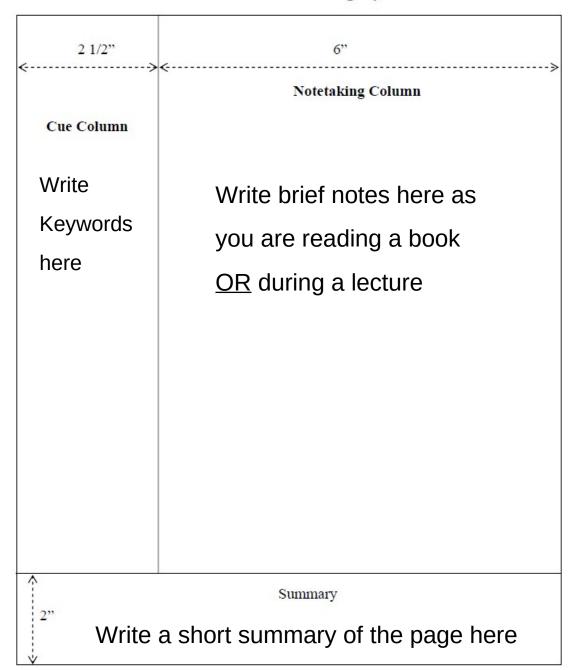




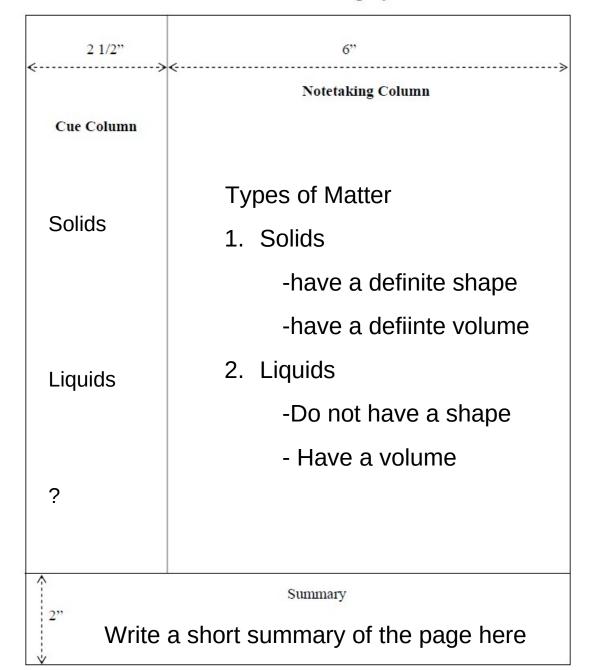
Mind Maps



#### The Cornell Note-taking System



#### The Cornell Note-taking System



# **Executive Summary**

A

Short summary (paragraph)
How convincing did you find
the author's argument?

B

What are the 4 honest signals? Briefly describe them. What is mood contagion?

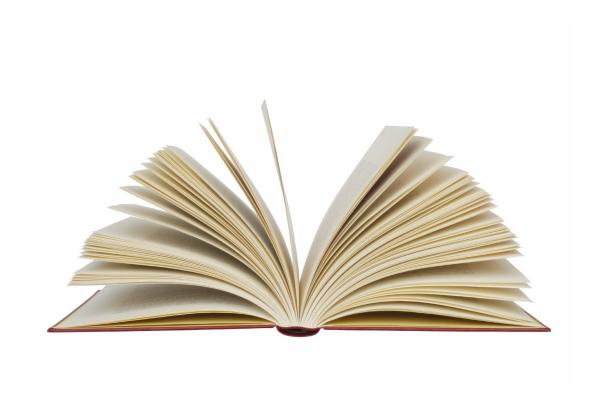
# Student Learning Development

Thank you for your time

Visit our website at:

http://student-learning.tcd.ie





Any Questions?