

Revision



Time for a change?
What works and what doesn't

Revision techniques - the good, the OK and the useless



 Professor John Dunlovsky reviewed 1,000 scientific studies looking at 10 of the most popular revision strategies

Hands up for each one if you have ever used it

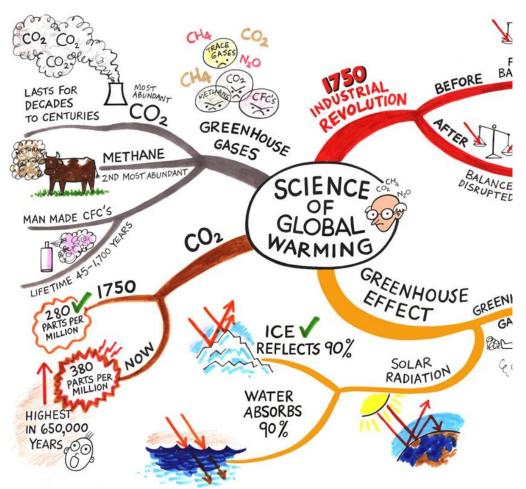
1. Elaborative interrogation

- You have a fact you need to learn / memorize / revise
- You ask yourself 'Why is this true'?
- You make up a (plausible) explanation for why the fact is true
- Helps your brain to make sense of the brain and relate it to existing ideas



2. Self-explanation

 Explaining how new information is related to known information..



2. Self-explanation

..or explaining steps taken when looking at worked examples

Worked example

A 20 N weight is raised through a height of 0.4 m. Calculate i) the work done

ii) the gain of gravitational potential energy of the object.

Solution

The force needed to lift the weight $= 20 \,\mathrm{N}$

Work done = force × distance moved in the direction of the force = $20 \text{ N} \times 0.4 \text{ m}$

= 8.0 J

ii) Gain of gravitational potential energy = work done = 8.0J

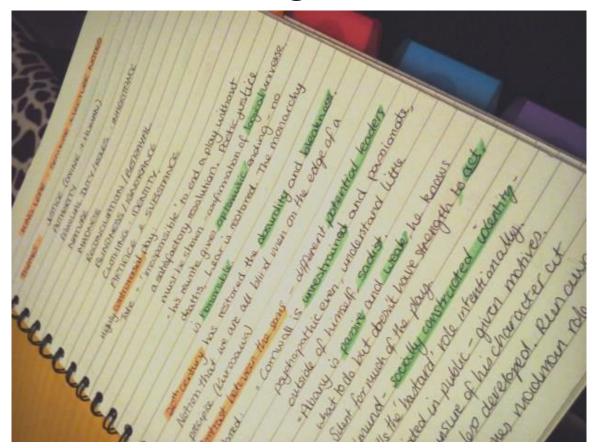
..because is needs to match the weight in size

The unit of work is the Joule

..because energy is conserved

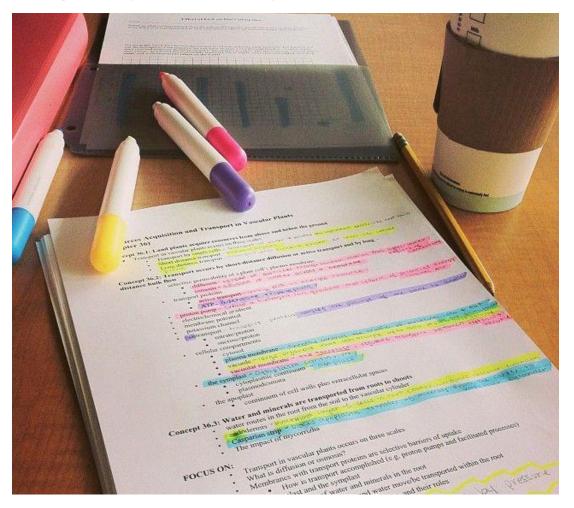
3. Summarizing (note taking)

- Copying out or condensing to summarize
- Textbook or revision guide as a source



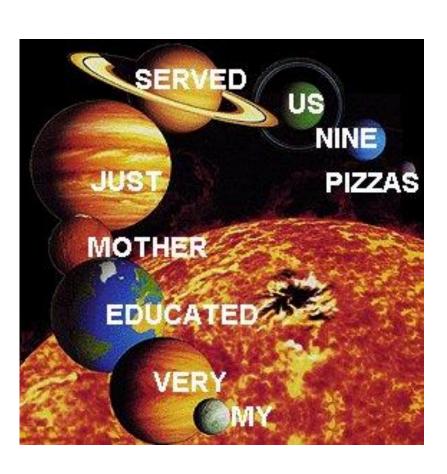
4. Highlighting/underlining

Marking important points in a book or notes



5. Keyword mnemonic

Sentences for lists:



Imagery for lists:

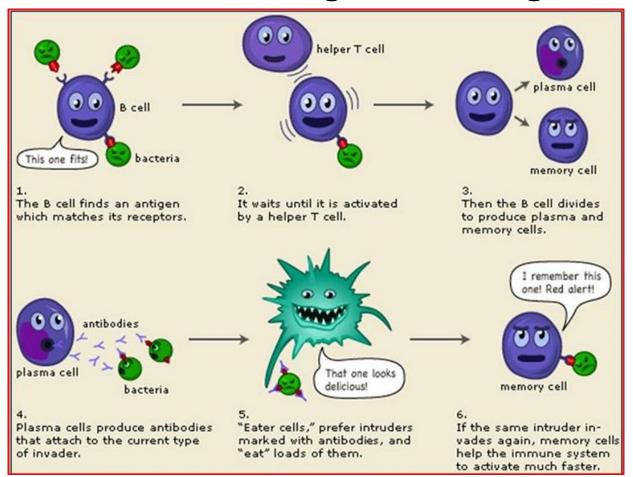


la dent (tooth)
la clef (key)
revenir (to return)
mourir (to die)



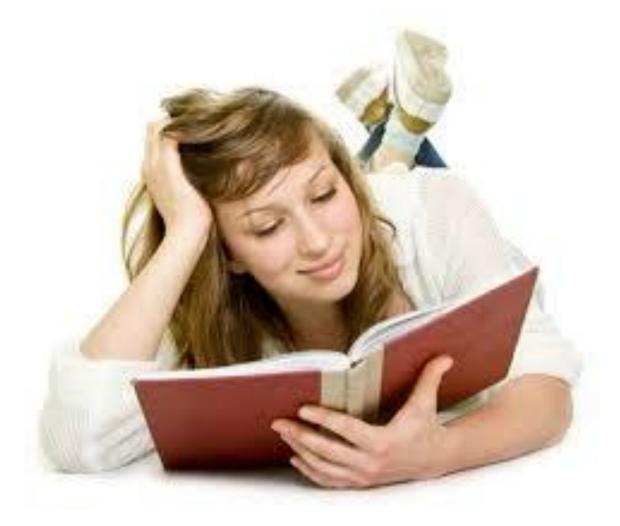
6. Imagery for text

 Attempting to form mental images of text materials while reading or listening



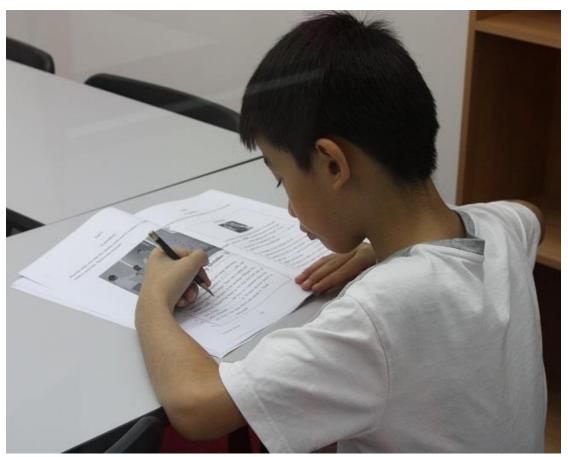
7. Rereading

Restudying text again after an initial reading



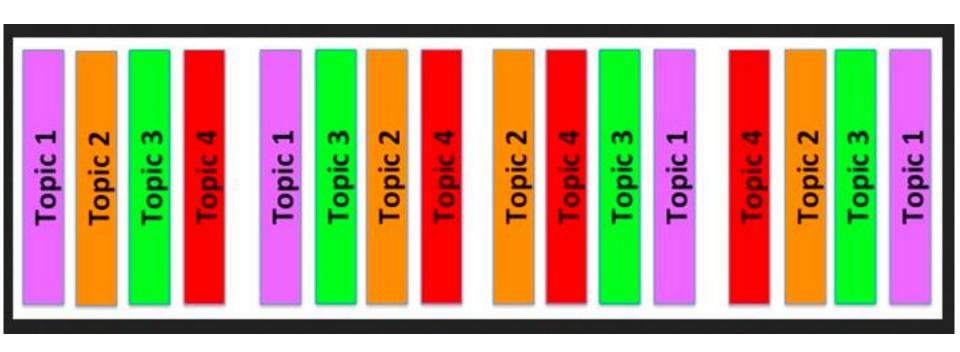
8. Practice testing

 Self-testing or taking practice tests / past papers



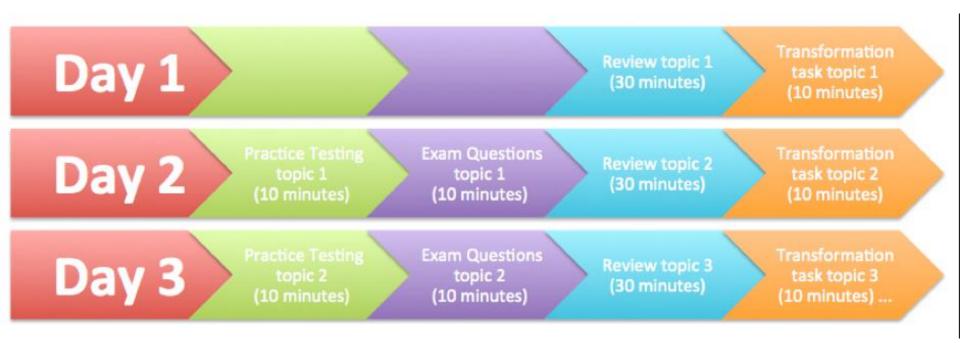
9. Distributed practice

 Following a revision timetable that spreads out activities over time



10. Interleaved practice

 Following a revision timetable that mixes up different subjects / topic / types of work within the same session

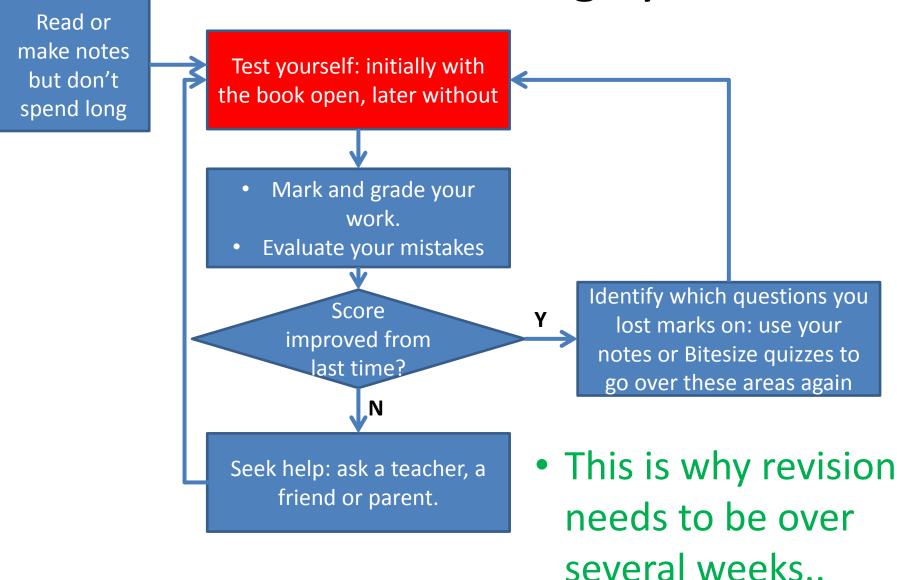


Which actually work?

Effectiveness	Strategies
High	Practice testing Distributed practice
Moderate	Elaborative interrogation Self-explanation Interleaved practice
Low	Summarization Highlighting Keyword mnemonics Imagery for text Rereading



Distributed testing cycle

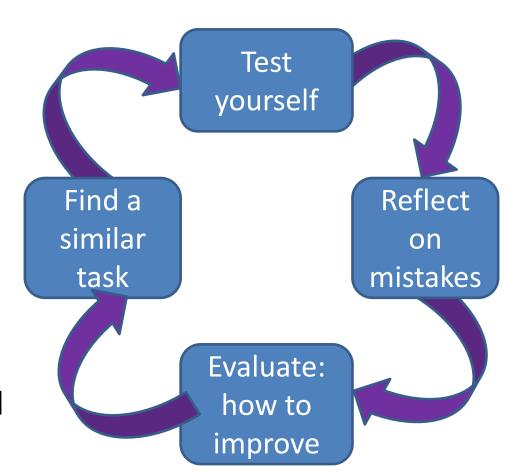


Evaluating mistakes

• Metacognition: 'Thinking about thinking' aka 'Learning to learn';

Reflect:

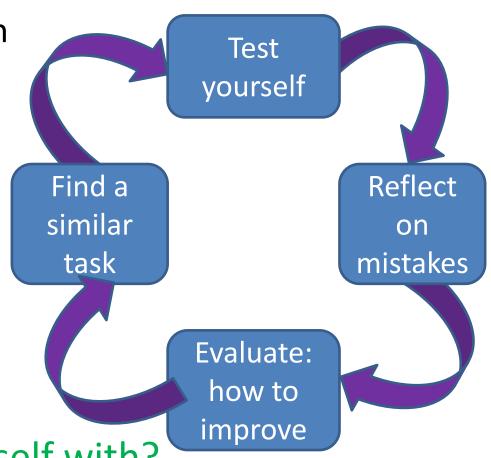
- Why did I choose that answer?
- What was faulty about my answer?
- What information was I missing?



Evaluating mistakes

Evaluate:

- What should I have been thinking about for this Q?
- What would I do differently next time?
- What do I need to go over again before trying a similar Q?



- What can you test yourself with?
- Can you mix it up?

How can you test yourself

- Past papers
- Make flash cards and test yourself with them
- Make Design exam Qs and trade with a friend
- Practice questions in books
- Get someone to test you verbally on your notes
- Do an online quiz if available



Why am I telling you this now?

 You need to start revising early: distributed testing

 Remaining class tests: opportunity to rehearse new revision techniques

