How to get the best from your revision

- *What did you have for dinner last Friday?*
- *Can you multiply 53x17 in your head?*
- *(Parents) Can you remember your home phone number when you were growing up?*

Tonight's Session

- 1. What are the best revision strategies?
- 2. What can I do if it is not sticking?

Experiment

Equipment:

Person A

Person B

Experiment

Person B: Close your eyes

Group A

You have been shipwrecked on an Island with 7 other people. There is no running water, no means of communication and you are likely to be here for some time.

When you see the list of words please rate each one on a scale of 1 – 5 as to how necessary each is to aiding your survival.

(1 – not necessary : 5 – vital)

Experiment

Person A: Close your eyes

Group B

You will see a list of words.

Please count the number of vowels in each word.

Word List

- ✓ The words will appear here.
- ✓ Your task is to recall as many words as possible.
- ✓ Do not write anything until the list has finished.

Bacteria

Body

Institute

Journal

Opium

Contract

Magazine

Hostage

Sunrise

Tomb

Recall Task

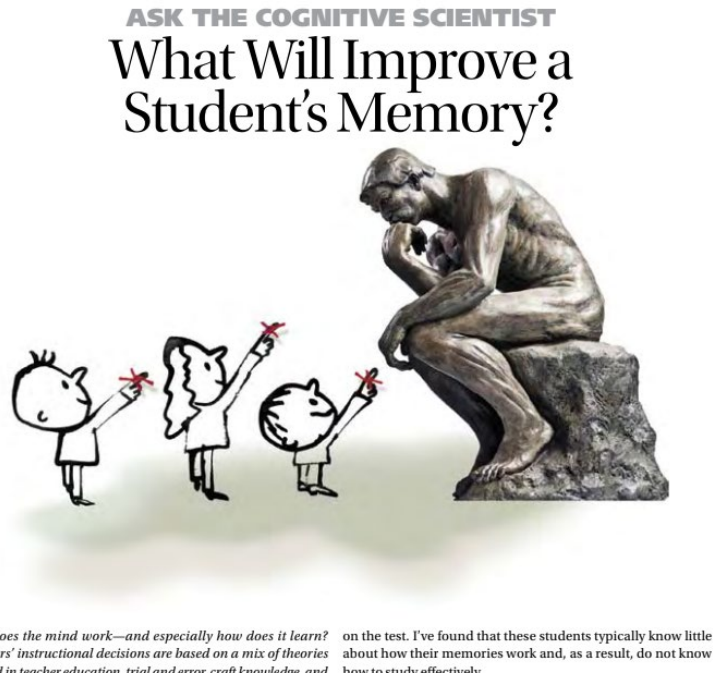
Please recall as many of the different words as you can.

Recall Task

Bacteria
Body
Institute
Journal
Opium
Contract
Magazine
Hostage
Sunrise
Tomb

Daniel Willingham

"Memory is the residue of thought."



ASK THE COGNITIVE SCIENTIST

What Will Improve a Student's Memory?

How does the mind work—and especially how does it learn? Teachers' instructional decisions are based on a mix of theories learned in teacher education, trial and error, craft knowledge, and

on the test. I've found that these students typically know little about how their memories work and, as a result, do not know how to study effectively.

Tonight's Session

- 1. What are the best revision strategies?
- 2. What can I do if it is not sticking?

Strengthening the Student Toolbox

Study Strategies to Boost Learning

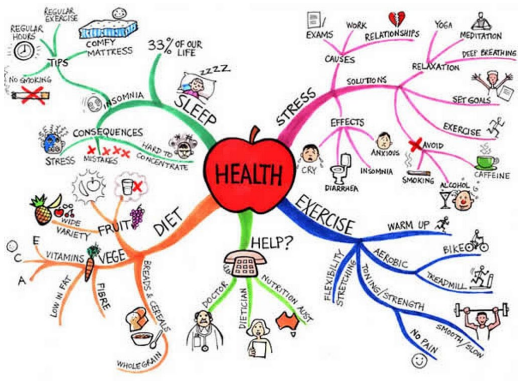
By John Dunlosky

gies are actually the most effective,[1] and at least on the surface

Active not passive

5 key revision strategies

1. Retrieval Practice - What do you already know?

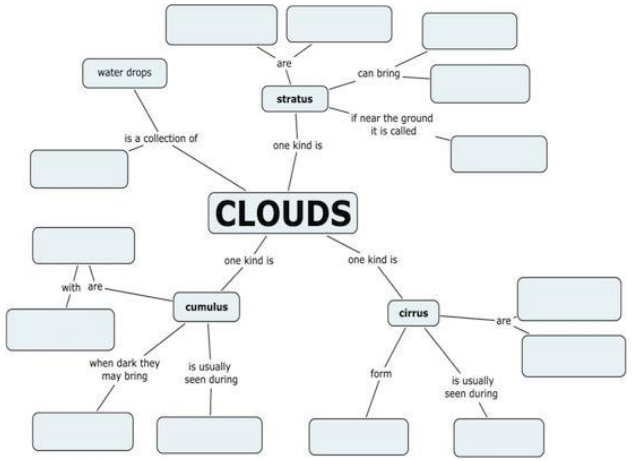


Free recall

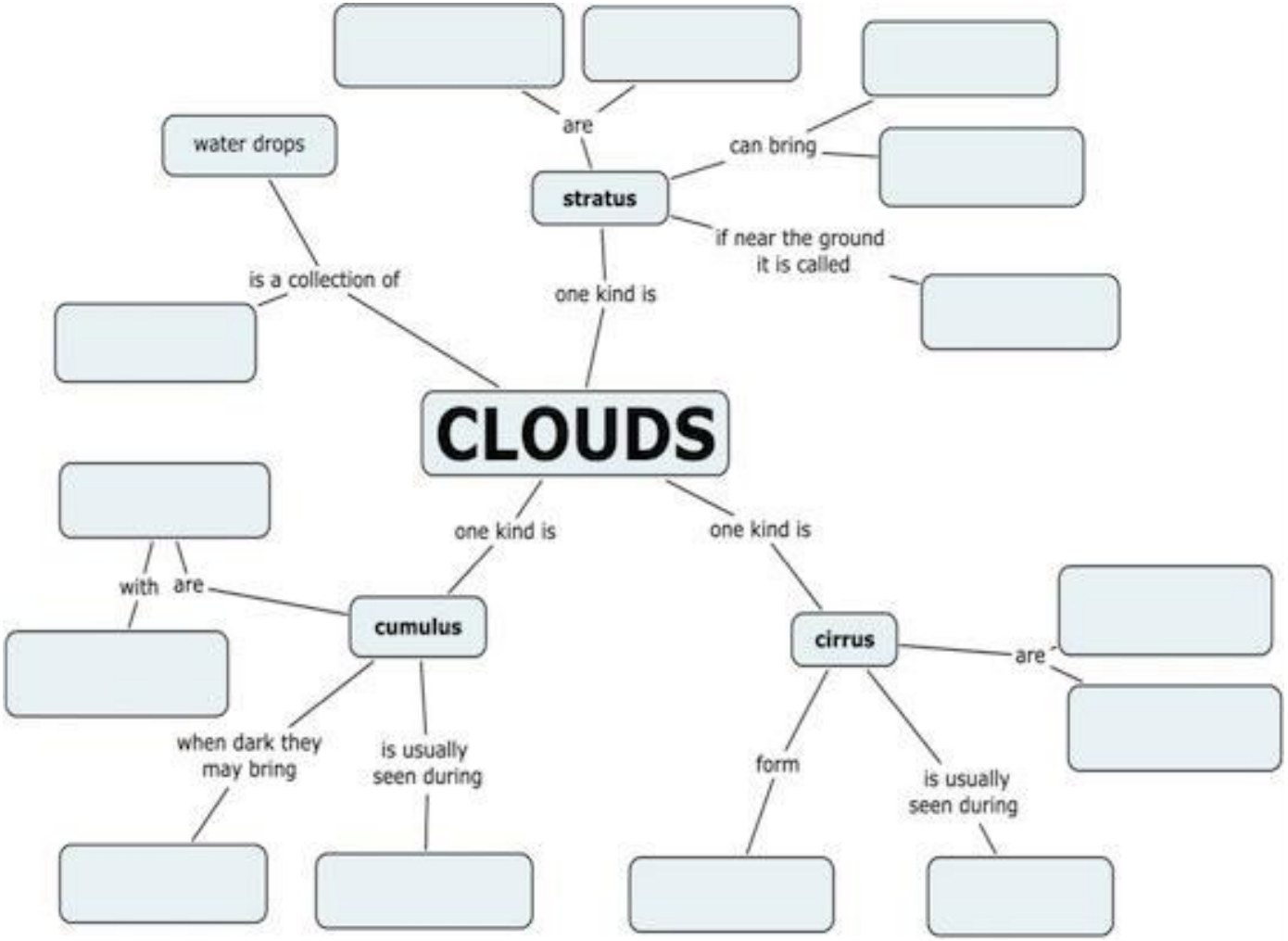
IMPORTANT: check your notes/guide for accuracy after

Close your eyes

Group discussion



Partial completion


CLOUDS
one kind is
stratus
are
can bring
if near the ground it is called
one kind is
water drops
is a collection of
one kind is
cumulus
with
are
when dark they may bring
is usually seen during
one kind is
cirrus
are
form
is usually seen during

Character Summaries
Macbeth - A warlike Scottish Thane (Lord) who betrays and murders his king for power. He is the tragic hero who suffers downfall. **Lady Macbeth** - Macbeth's ambitious and manipulative wife. **Duncan** - A good and benevolent Scottish king murdered by Macbeth. **Banquo** - Macbeth's noble friend, who also receives a prediction from the witches. Banquo has a son called Fleance. **Macduff** - A Scottish Lord who seeks revenge on Macbeth. **Witches** - Three 'weird sisters' who offer Macbeth

Character Summaries

____ - A warlike Scottish Thane (Lord) who betrays and murders his king for power. He is the tragic hero who suffers downfall.

___ _____ - Macbeth's ambitious and manipulative wife.

_____ - A good and benevolent Scottish king murdered by Macbeth.

_____ - Macbeth's noble friend, who also receives a prediction from the witches. Banquo has a son called Fleance.

_____ - A Scottish Lord who seeks revenge on Macbeth.

_____ - Three 'weird sisters' who offer Macbeth various prophecies.

_____ - Duncan's son and heir, who flees to England

1	L’*nn** d*rn**r*	*Last Year*
2	J* s**s *ll*	*I went*
3	*v*c m* f*m*ll*	*With my family*
4	*n * v*y*g* *n...	*We travelled by...*
5	c’*t**t...	*It was*
6	J* s**s r*st* d*ns...	*I stayed in...*
7	L* p*sc*n* *t**t gr*nd* *t *m*s*nt*	*The pool was big and fun*
8	J’** v*s*t* d*s m*n*m*nts	*I visited some monuments*
9	*l f**s**t ch**d	*It was hot*
10	J* v**dr**s r*t**rn*r	*I would like to return*

1	L’a d	*Last Year*
2	J s a	*I went*
3	A m f	*With my family*
4	O a v e...	*We travelled by...*
5	c’t...	*It was*
6	J s r d...	*I stayed in...*
7	L p é g e a	*The pool was big and fun*
8	J’ v d m	*I visited some monuments*
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1		***Last Year***
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3		***With my family***
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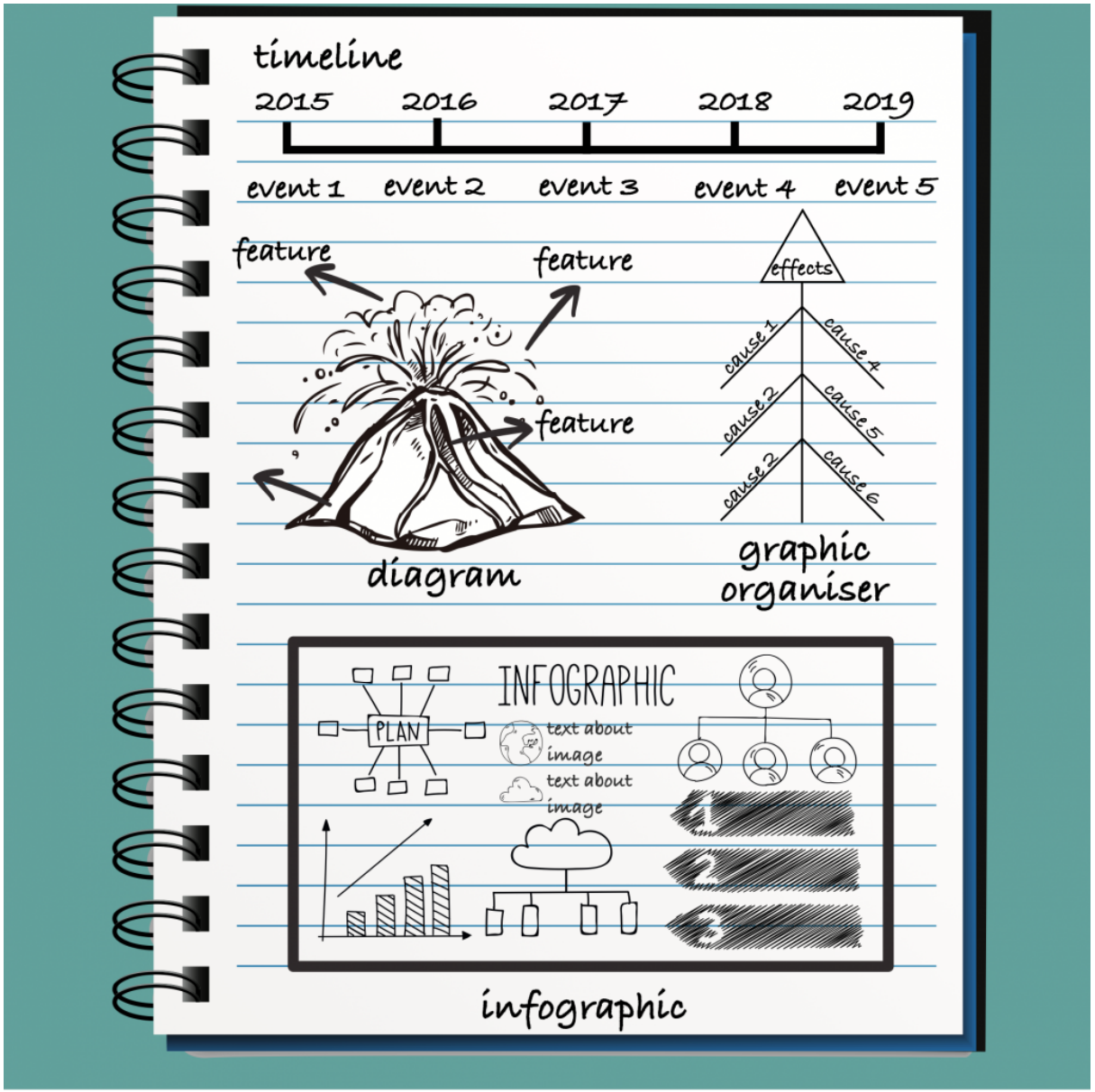
6		***I stayed in...***
7		***The pool was big and fun***
8		***I visited some monuments***
9		***It was hot***
10		***I would like to return***

2. **Dual Coding**
- combining visual and text



KETT'S REBELLION

June – Saints' day

Flowerdew confronted

Kett's confrontation

Camp on Mousehold Heath

defeat the King's first army

defeated by the King's second army.

Kett sympathises with the rebels and becomes their leader

commoners drink too much orange juice and start discussing their problems, with enclosure being the most prevalent

they direct their anger at Flowerdew but he directs their attention to Robert Kett.

they set up camp on Mousehold Heath, prepare a petition

They defeat the first army sent by the King / Somerset

they are defeated by a second army at Dussindale

Nuclear FUELS

What is it?

It's a substance that is used to produce heat to power turbines. Heat is produced when nuclear fuels undergo the nuclear fission.

The main nuclear fuels are uranium and plutonium. These are radioactive metals. Unlike fossil fuels, nuclear fuels are not burnt to make energy. Instead, nuclear fission reactions in the fuels release energy.

DANGEROUS

THE PROCESS OF...

Nuclear Fission:

Advantages...

→ unlike fossil fuels, nuclear fuels do not produce carbon dioxide or sulfur dioxide.

→ This helps the global warming slow down.

→ The U.S. saves $12 billion dollars a year for energy costs, thanks to nuclear power!

VS

Disadvantages...

→ fossil fuels and nuclear fuels are non-renewable energy sources. If there is an accident, large amounts of radioactive material could be released into the world.

→ It must be stored safely!

DID YOU KNOW...

→ Enrico Fermi, an American / Italian physicist was the discoverer of nuclear energy.

→ 20% of U.S.'s electricity comes from nuclear energy!

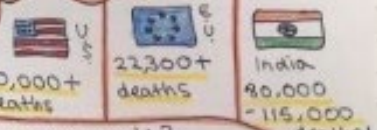
→ France is the most reliant country on nuclear energy.

Reasons Why...

Since the beginning of the industrial revolution, the demands for energy has increased dramatically! Today, most of these demands are met with the combustions of fossil fuels. This is starting to change peoples' minds that because of the rising costs and the harmful effects on the environment caused by fossil fuels, we should look for ways to replace our dependence upon them. Nuclear energy is one of the best options because it has all of the technology required to be used on a large scale!

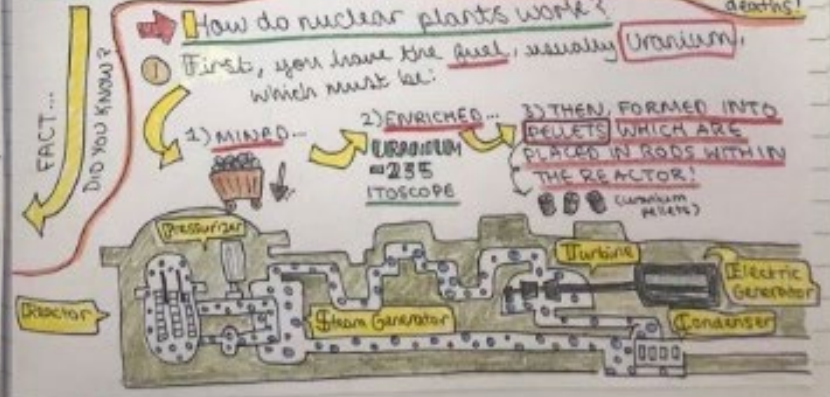
Is it really that dangerous?

Despite the seemingly huge impact reported by the media, there have been no deaths as a direct result of the meltdowns at either Fukushima or Three Mile Island! Even in the case of Chernobyl, the total number of deaths is quite low. In comparison, deaths due to the use of coal are over 10,000 a year in the U.S. alone, followed by 22,300 deaths per year in Europe and up to 100,000 deaths per year in India.



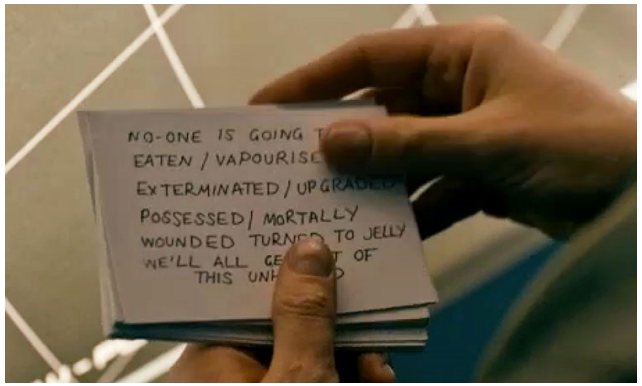
How do nuclear plants work?

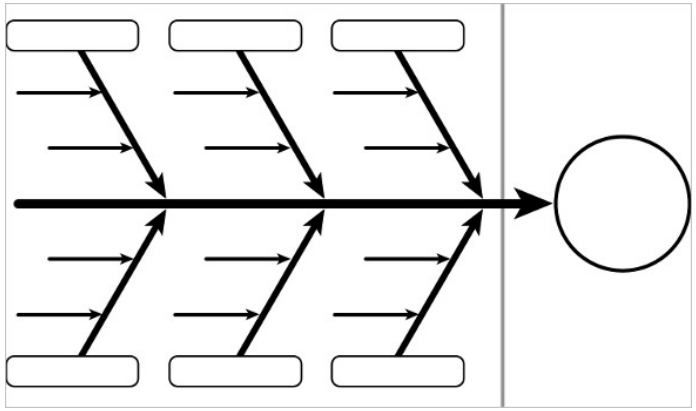
First, you have the fuel, usually Uranium, which must be:



DID YOU KNOW? FACT...

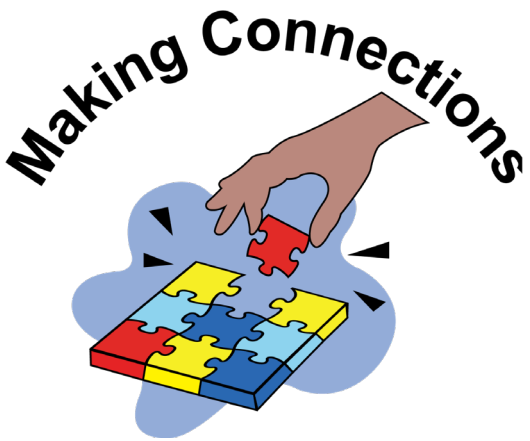
Transform notes into visual representations

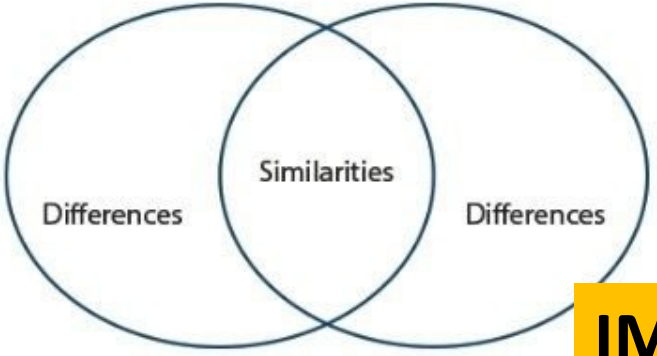




IMPORTANT: reverse the process, i.e. produce something written or spoken from the visuals

<u>3. Go beyond the facts</u> - describe, and explain in detail, ask why?

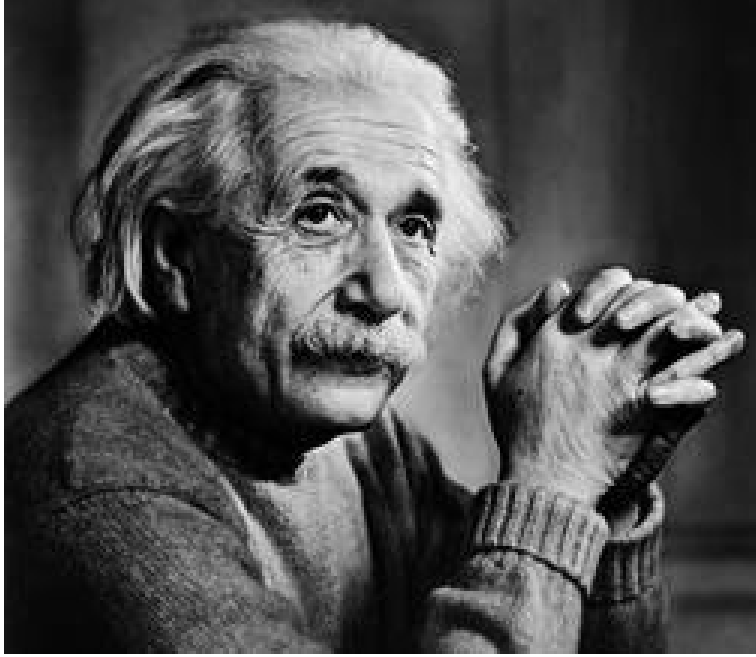




<u>IMPORTANT</u>: work up to being able to describe and explain without looking at notes

If you can't explain it **simply**, you don't understand it well enough.

– Albert Einstein

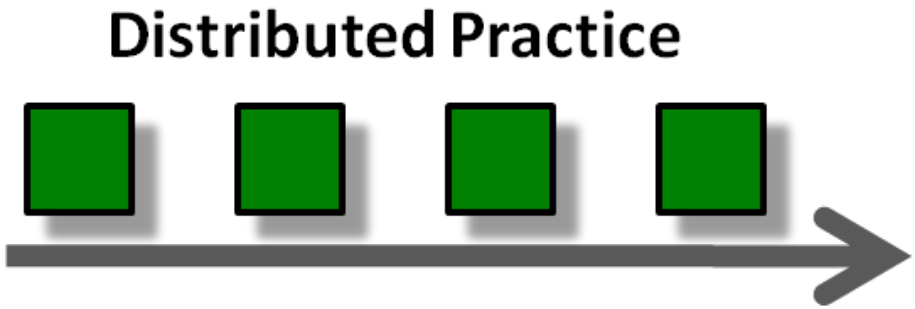


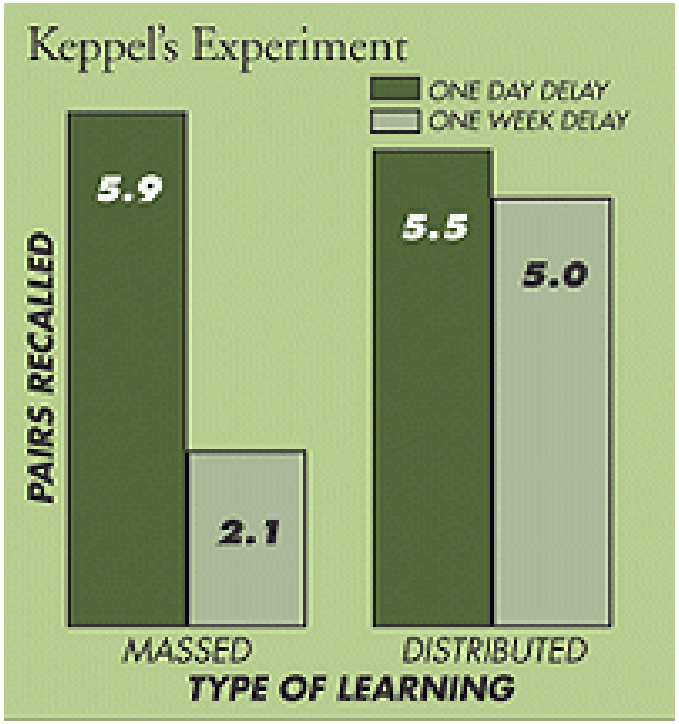
Of course I talk to myself. Sometimes I need expert advice.

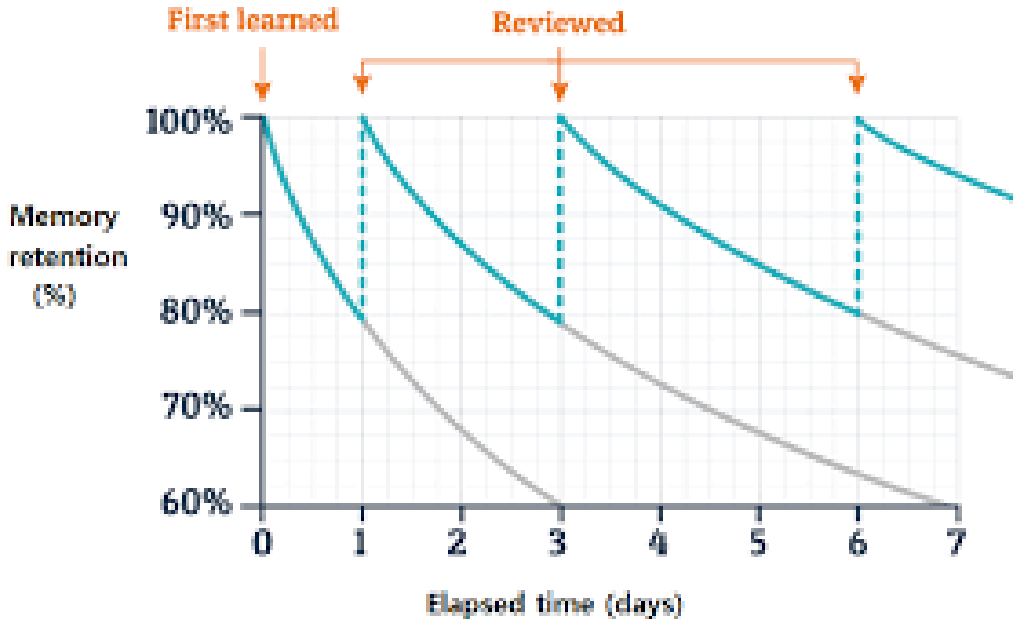
4. Space your learning and mix up your revision - have some time to forget!

Concentrated Practice

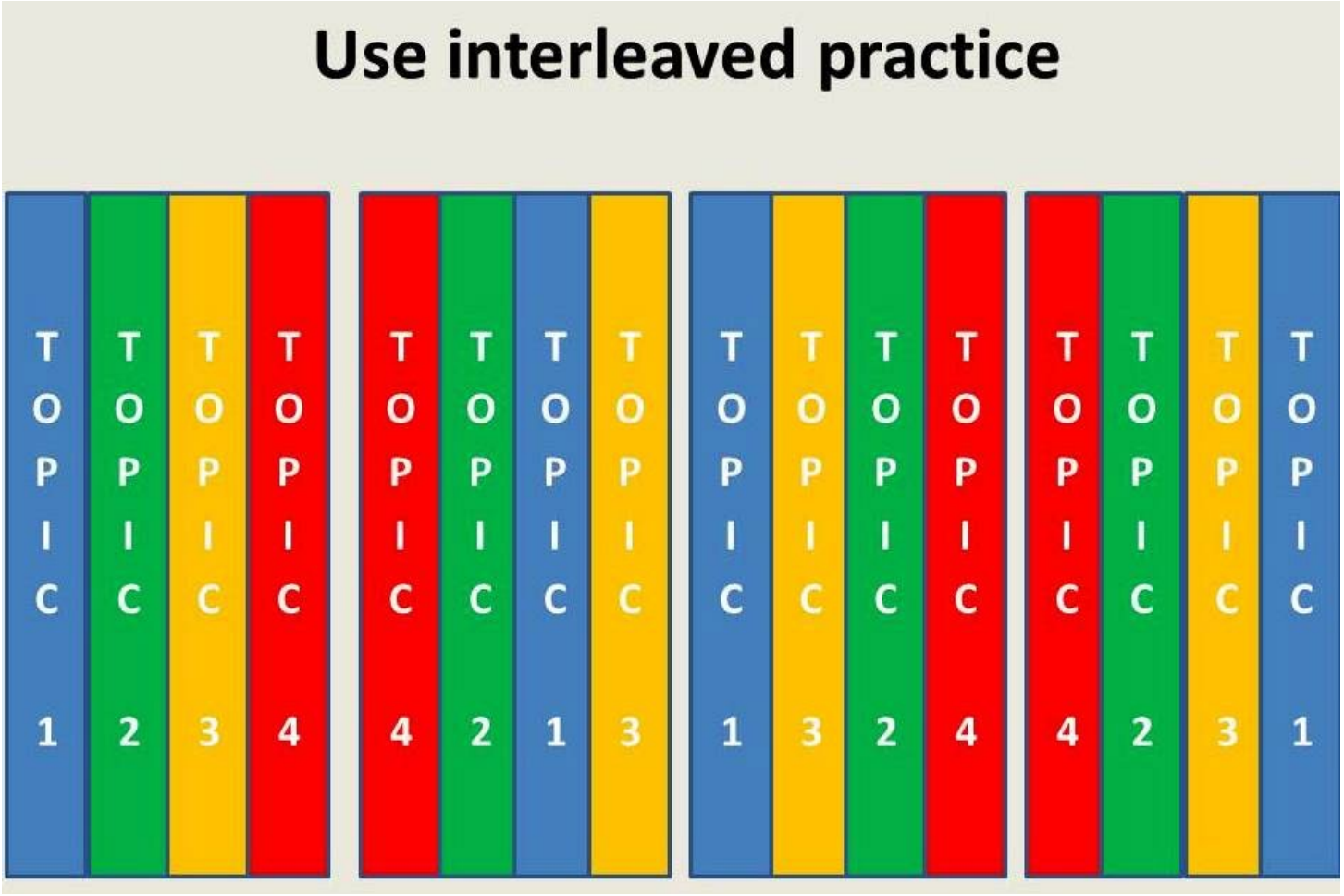
vs.



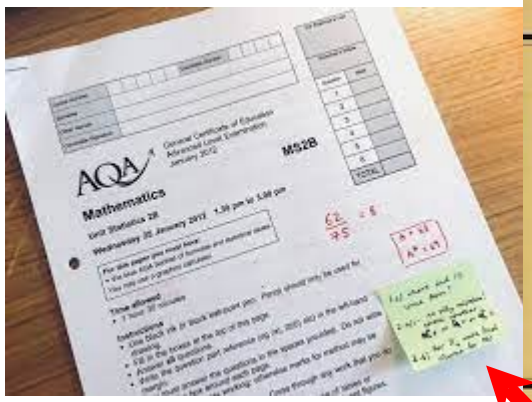


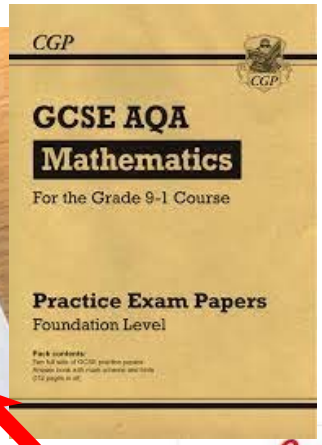


<u>4. Space your learning and mix up your revision</u> - have some time to forget!



5. Deliberate Practice





Mark scheme

[Level 3] Answer gives a correct explanation of how Deflex may reduce transmission across synapses in terms of its effect on (neuro)transmitters or receptors. Quality of written communication does not impede communication of the science at this level. (5 – 6 marks) **[Level 2]** Answer indicates reduction of transmission across synapses OR reduced activity of (neuro)transmitters. Mechanism unclear. Quality of written communication partly impedes communication of the science at this level. (3 – 4 marks) **[Level 1]** Suggests that Deflex is a depressant or reduces transmission of impulses. Quality of written communication impedes communication of the science at this level. (1 – 2 marks) **[Level 0]**	6	**This question is targeted at grades up to A*** **Indicative scientific points at level 3 may include:** • Deflex binds with receptors in synapses • transmitter can no longer bind to receptors • binds with the neurotransmitter once released • breaks down the released neurotransmitter **Indicative scientific points at level 2 may include:** • Deflex works on synapses • Deflex reduces amount of transmitter substance **Indicative scientific points at level 1 may include:** • Deflex is a depressant • no impulse sent along second neurone **ignore** Deflex is a sedative / sleeping tablet **ignore** Deflex affects / slows the nervous system

Perfect PRACTICE MAKES PERFECT

16/04/2016

Exam Diagnostic: S1 May 2013

10001	John Smith		
Target Grade	C	EXAM 1	D
Class Teacher	Mr Uddin	EXAM 2	C
TEACHING CLASS	Year 12	CURRENT	B

Q	TOPIC	MAX	MARKS
1	Calculating variability of bivariate data (Sxx, Syy)	3	1
2	Calculating PMCC	2	1
3	Using the PMCC	1	1
4	Regression line	4	3
5	Interpreting regression line	1	1
6	Using regression line	2	1
7	Interpreting data from boxplots	1	1
8	Interpolation to find median and IQR	3	3
9	Drawing boxplots	5	5
10	Using boxplots to compare data	2	2
11	Calculating probabilites from two-way tables	4	1
12	Drawing Venn diagrams (three way)	4	1
13	Using Venn diagram to intepret probabilities	2	2
14	Estimating mean and sd from grouped data	3	2
15	Linear interpolation to calculate	2	2
16	Linear interpolation to estimate lower quartile	1	1
17	Estimating the IQR of the distribution	2	1
18	Commenting/comparing measures of location	1	1
19	Coding	3	3
20	Mean of discrete random variable	5	2
21	The expected value for X^3	1	1
22	The variance of a random variable	3	3
23	Cumulative distribution function	1	1
24	Probability disdtribution	3	2
25	Finding probabilities of random variables	2	1
26	Finding the value of the mean - μ	3	1
27	Using the percentage points to calculate probability	3	1
28	Finding the standard deviation - σ	4	4
29	-	2	2
30	-	2	2
		75	53

WJEC CBAC

AQA

edexcel
advancing learning, changing lives

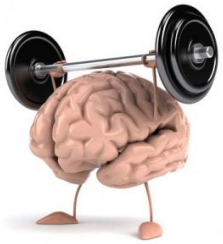
CEA

OCR
RECOGNISING ACHIEVEMENT

Key strategies to make revision effective

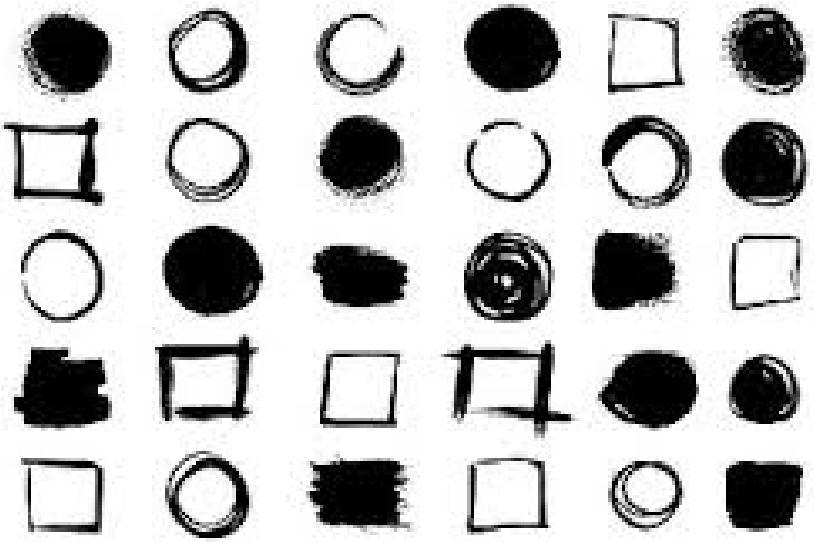
Revision

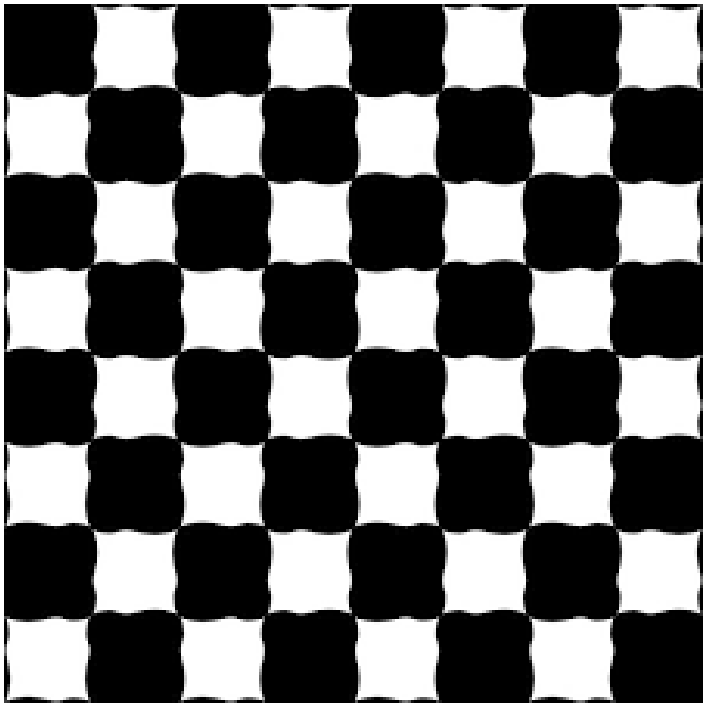
1. Retrieval Practice
2. Transform notes - dual coding
3. Go beyond the facts
4. Distribute your revision
5. Practise questions and past papers



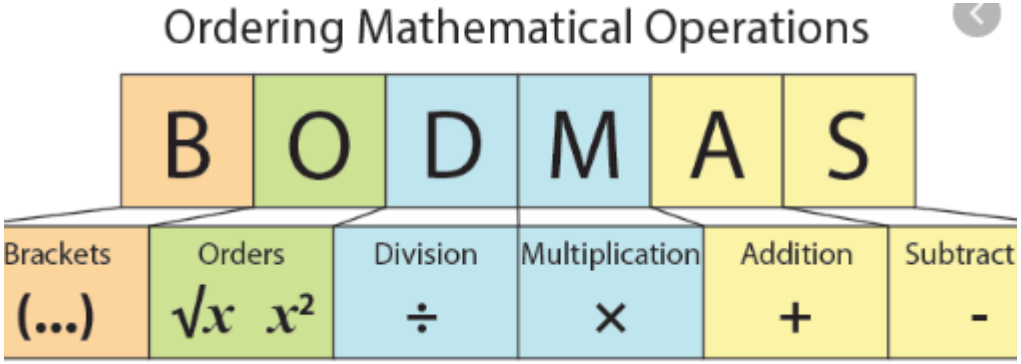
Tonight's Session

- 1. What are the best revision strategies?
- 2. What can I do if it is not sticking?





Use Mnemonics



A.V.O.C.A.D.O. =

1. A → Adjectives
2. V → Verbs (Variety of Verbs)
3. O → Opinions
4. C → Connectives
5. A → Adverbs
6. D → Description
7. O → ORIGINALITY

MAIN

Mnemonic Device: MAIN
Explanation: to remember the four MAIN causes of world war 1 Militarism, Alliance System, Imperialism, Nationalism

More Mnemonics for History

Go on a familiar journey!

Use stories

Final tips…!

Key strategies to make revision effective

Thank you for participating.

Have a good evening!