### VCE PSYCHOLOGY 2018 TSFX FEBRUARY LECTURE



Ms Veronica Parsons

# Why do you need to take notes & revise?







### Not only do we forget...we don't take in everything we Read!

Count every " F " in the following text:

FINISHED FILES ARE THE RE SULT OF YEARS OF SCIENTI FIC STUDY COMBINED WITH THE EXPERIENCE OF YEARS...







#### What Number Do You See??

### **Computer or Handwritten Notes?**

- Neuroscience supports cognitive value of **handwriting**.
- More of your brains thinking, language & working memory regions are activated with each handwriting stroke compared to typing.









## **Taking Notes in Class**

 Cornell System (3.38 minutes) <u>https://www.youtube.c</u> <u>om/watch?v=JyILC\_4C</u> Xa4





Taking notes in the 21st Century.

### When your teacher's talking faster than you can take notes



Could you, like, chill for a sec?

## **Taking Notes in Class**

A & A & A		Cornell Notes	Name Date Class Period
	Main Idea Key Question (after notes are completed) Summary o	<ul> <li>Key words &amp; ideas</li> <li>Important dates/people.</li> <li>Repeated/Stressed Info</li> <li>Ideas/brainstorming write</li> <li>board / overhead project</li> <li>Info from textbook/stor</li> <li>Diagrams &amp; Pictures</li> <li>Formulas</li> </ul>	/places



### Cornell Note Taking System

Date & Topic	
–Cue/ Keyword – Notes Area _Area_	Reduce Recite
	Reflect Review
Summary Area	



Tom Jones is a <u>pioneering 18th century novel</u> following the <u>picaresque</u> adventures of the <u>eponymous hero</u>. It covers themes of <u>unrequited</u> feelings, flirtation and <u>sexual desire</u>. The heavy <u>military imagery</u> and <u>comical situation</u> give the novel a <u>satirical</u> feel, whilst making an interesting point about the role of women in lower classes of the [reagency] era/period. Themes of religion, faithfulness t lust also teature.



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Sophie Bakker Year 12 " My Cornell summaries motivate me to study as they are so colourful. I am proud of them and my memory has definitely improved. I wish we were taught about these in year 8 &9"



#### Shani Mitchell Year 11

"Learning HOW to do summaries literally changed my life. I do it for all my subjects, it is actually enjoyable and my grades have gone from a C average in year 10 to A-A+ in year 11"

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### This is What your Text Book Should Look Like

- Great you tube <4 minutes. 12 Tips for Taking Notes from Text
- <u>https://www.youtube.com/wat</u>
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### **Overcoming the Curve**



#### **Abbreviations & Short Hand**

- SumRY Lk U TXT
- Each line should be no more than 5 -6 words.
- Drop internal vowels
- Eg Large →lge
- Use symbols & abbreviations.
   Eg. △↑↓□
- Drop last several letters of a word.
- Eg. Government -> gov





### Page 1 &2&4 'Traffic Light' before SAC

Traffic Light Highlight

- RED- Don't Understand
- ORANGE- Bit Unsure
- GREEN- Understand





### Distractions interfere with Memory



## Neural Basis of Learning

Learning is the acquisition of skill or knowledge, while memory is the expression of what you have acquired. The existence of memory indicates that learning has occurred.

Changes in the neural network of the brain takes place as learning occurs. (Neural plasticity ) https://www.youtube.com/w atch?v=GIGqp6\_PG6k





### Acronymns Help Retention

- A-Add to Notes



R-Review Notes



## SOH-CAH-TOA

### Lobes of the Brain



#### Elaborative Rehearsal: (Transfers to LTM)

#### Hippocampus-If you saw a hippo on campus,

#### you would remember that!





## Page 5&6 Research Methods Design

- Important: Don't Confuse Methods with Design
   Methods
- Experiment
- Cross Sectional Studies
- Case Studies
- Observational Studies
- Self Reports (Questionnaires, interviews etc)

#### Design (DIRM

- Independent Groups
- Repeated Measures
- Matched Participants

#### (My Excellent Class Can Often Say- Does It Really Matter)

### VCAA 2014

#### Question 6 (3 marks)

Dr Bannatyne conducted a repeated-measures design in a hospital's sleep laboratory by using healthy, pain-free individuals as participants. Results showed that small decreases in sleep time and a reduction in rapid eye movement (REM) sleep produced increased sensitivity to pain from a needle prick the following morning.

a. What is one bene t of using a repeated-measures design in this particular study?

1 mark

#### Question 6a.

Marks	0	1	Average
%	84	16	0.2

Students did not answer this question well. Students needed to be able to apply their knowledge of repeated-measures designs to the scenario. In a repeated-measures design each participant acts as his or her own perfectly matched control, reducing the potential for confounding variables that tends to occur in between-group designs. In the context of the experiment described, the key advantage of using a repeated-measures design is that it would enable the experimenter to control for individual differences between participants in variables that may affect the data and the interpretation of the results, including differences in things such as sleep patterns, weight, age, and especially pain sensitivity (the dependent variable). No marks were awarded to students who provided a generic response without direct reference to the scenario. The question asked specifically that students refer to 'this particular study'.

## Sampling Methods

- Convenience
- And
- Random
  - Stratified



ARTIE.COM



## 2017 Assessor's Report

Question 9 (3 marks) The Sunnydown Basketball League has 1500 players aged 12–18. Explain <u>how</u> a researcher could design a random sampling procedure to investigate the effect of sports drinks on the performance of under-16 basketball players in the Sunnydown Basketball League.

#### **Question 9**

Marks	0	1	2	3	Average
%	37	33	22	8	1

### Page 20: Example Short Answer Response

- researcher needs to ensure that every member of the population (under-16 players from the Sunnydown Basketball League) has an equal chance of being selected in the sample.
- could put all the names of the under 16-players into an online database and then have that program randomly select the appropriate number of participants.
- Participants could then be randomly allocated into groups, with one drinking sports drinks and the other using water.

### VCAA 2016

#### Question 2

Marks	0	1	2	Average
%	36	9	55	1.2

Students were asked to name the sampling procedure used and to identify one advantage of it. 'Convenience sampling' was the only acceptable response. 'Convenient sampling' was not accepted. Students are expected to know the correct terminology. Acceptable advantages included that participants are readily available or that it is time-efficient.

#### Ethics

- Harm
- Voluntary Participation
- Informed Consent
- Confidentiality
- Withdrawal
- Deception
- Debriefing



#### Question 16b.

Marks	0	1	2	Average
%	73	23	4	0.3

Two of:

- no psychological or physiological harm to participants
- no invasion of personal privacy, which can cause stress
- no coercion, which can place participants under duress.

It was necessary for students to provide a response that corresponded with the ethical considerations listed in Question 16a.

Debriefing takes place after research has concluded and conclusions have been drawn. Many students indicated that participants should be told what would be involved in the research, implying incorrectly that debriefing occurs before the research.

### New Ethics .....

 apply ethical principles when undertaking and reporting investigations, including consideration of the role of the experimenter, (must act in a professional manner) protection and security of participants' information, confidentiality, voluntary participation, withdrawal rights, informed consent procedures, use of deception in research, debriefing and use of animals in research

## IPAD= Hypothesis

- I= IV
- P=Participants
- A= Affect expected
- D=DV

#### Example

 If is hypothesised that female participants from St Leonard's College aged between 12 and 18 who consume 1200 grams of chocolate for each day over a period of 5 weeks will gain more weight compared to those participants who do not consume chocolate on any day for a period of 5 weeks.

#### Question 1

Marks	0	1	2	3	Average
%	17	31	46	5	1.4

Students were asked to construct a research hypothesis for the study. A research hypothesis should state a prediction relating to the expected effect of an independent variable on a dependent variable as a means for testing a theory, or for answering a specific research question. To score full marks for this question, students needed to:

- include reference to the initial manipulation of memory (i.e. the independent variable)
- include reference to the subsequent test of memory, with percentage, likelihood or number of false memories/false 'yes' responses as the dependent variable
- indicate the direction of the predicted effect that is, the way in which the two groups were
  predicted to differ on the dependent variable (not simply that there would be a difference).

Students could express their hypothesis in fully operationalised terms or in broader terms.

Reference to a specific population was not required in this case related to human memory performance in general (i.e. the first line of the scenario stated that the researcher wanted to 'investigate how the introduction of false information affects people's eyewitness testimonies'), and so it was implicit that the hypothesis pertain to people in general. Most experimental work in psychology is concerned with deriving general principles/theories about human behaviour and performance, rather than being focused on specific populations, unless a particular population (e.g. people experiencing depression) is the stated focus of the research question. It was not correct to identify university students as the population; university students comprised the sample (albeit a non-representative sample of people in general, a point to make in the limitations section of the discussion).

The most common error was a tendency to refer to the initial questioning phase as if it were also the final test phase. That is, there was often no clear separation of the initial manipulation of memory (the independent variable) and the subsequent test phase five days later (the dependent variable). For example, many responses stated a variant of the following: 'Participants who were asked misleading questions would be more likely to respond "yes" to objects or items that did not appear in the video than those who were asked open questions.' Responses such as this could score no more than two marks.

A number of example research hypotheses for this question have been provided below. All of these examples meet the three criteria required to obtain full marks. Reference to the initial manipulation of memory (independent variable) is in **bold font**; reference to the subsequent test of memory (dependent variable) is in *italic font*, and reference to the direction of the effect is <u>underlined</u>. Note the use of past tense for expressing hypotheses, which is appropriate because research reports always refer to work that has already been conducted. The use of past tense

#### Pg 6: 6th Dot Point: Extraneous & Confounding Variables?

 Identification of potential extraneous and confounding variables including individual participant differences, non-standardised instructions and procedures, order effects, experimenter effect and placebo effects.



So..... O....PEPSI

Order Effects+ Participant Differences+ Experimenter Effect+ Placebo Effect+ Standardised Instructions (non) Pg 5 6th Dot point: How to Control for Extraneous & Confounding

#### Variables?

By considering...

- type of sampling procedure
- Type of experiment
- Counterbalancing
- Single & double blind procedures
- Placebos
- Standardised Instructions & Procedu



• =BICEPS

Can you Generalise your research

#### findings to the population? Yes if..... Yields statistically

- Significant Extraneous Variables & confounding variables controlled for
- Sample (large, representative of population& random)



Unit 3: Area of Study 1: How does the nervous system enable psychological functioning?



## Nervous system functioning

Roles of different divisions
 Conscious and unconscious responses to sensory stimuli
 Role of the neuron
 Role of neurotransmitters
 How interference to neurotransmitter function can affect nervous system functioning





# Pg 7: Organisation of the PNS

Purple Apples Seem Slightly Problematic-(Peripheral-Autonomic, Somatic, Sympathetic, Parasympathetic)



## Pg 21: Parts of a Neuron

- Don't Swim Nude Around My Aunt
- Dendrite-Soma-Nucleus-Axon-Myelin Sheath-Axon Terminals



### Pg 23: Neural Basis of Learning & Memory

 The dendrites contain the receptors for the uptake of the neurotransmitters, the axon terminal stores the neurotransmitters in sacs known as vesicles, the axon conducts electrical impulses which is enhanced by the surrounding myelin.



### When Answering Exam & SAC Questions Be SAD

- Specific
- Answer the Question
- Define



#### Pg 33: Question 22(Typical 3 Mark )

**KKDP 1** The roles of different divisions of the nervous system (central and peripheral nervous systems and their associated sub-divisions) in responding to, and integrating and coordinating with, sensory stimuli received by the body.

Sensory receptors in Karina's peripheral nervous system will detect the sound signal. 1 mark

Afferent signals will then be sent to the spinal cord in the central nervous system, where the interneurons will integrate the sensory and motor information. 1 mark Efferent messages will then be sent back down the spinal cord to the peripheral nervous system, then to the effector muscles in Karina's leg, leading to the tapping of the foot. 1 mark



## Your mates excite you=Glutamate!



### Neurotransmitters

Don't spend hours staring at brain parts and repeating them! Use these mnemonic images and memorize them in minutes.

The effect of the neurotransmitter GABA is to reduce anxiety and create a relaxing, almost sleepy feeling, let's think of "Gaga" when we see GABA and use the image of

a calm, peaceful, sleeping baby...

Gaba is a neurotransmitter inhibitor. That's why there's a neurotransmitter "in his bib" (to remind you of "inhibitor" get it? - I know it's bad, but it'll work).

Back



#### **Conscious vs Unconscious**

- Conscious+awareness+voluntary
- Unconscious+no awareness+involuntary
- **Conscious:** The somatic nervous system is responsible for the initial detection of sensory information; for example, shoes that are too tight on a foot. The brain will initiate a conscious motor response, which will travel through the spinal cord back to the somatic nervous system, resulting in the loosening or removal of the shoe.
- spinal cord

• **Unconscious:** spinal reflex

#### **Sample Exam Question**

Josh's hand comes into contact with a hot coffee cup.

Distinguish between an unconscious and a conscious response to the heat of a coffee in terms of the nervous system.

- If Josh consciously responds to the heat of the cup, then his somatic nervous system will detect and convey the sensory information (in terms of the heat of the cup) towards the central nervous system.
- Afferent signals will be conveyed to the brain via the spinal cord (central nervous system), where he will be aware of the heat of the cup and thus trigger a conscious response.
- His somatic nervous system will also detect and convey the sensory information to the spinal cord.
- The interneurons in his spinal cord will integrate sensory and motor signals and trigger an unconscious spinal reflex, resulting in a rapid removal of the hand from the hot cup that Josh is unaware of whilst the movement is occurring.
- 1 mark for an explanation of the role of the somatic nervous in the conscious response.
- 1 mark for an explanation of the role of the somatic nervous in the spinal reflex.
- 1 mark for an explanation of the role of the brain in initiating the motor response (central nervous system) in the conscious response.
- 1 mark for an explanation of the role of the spinal cord triggering the motor response (central nervous system) in the unconscious response.

## General Sac & Exam Tips

Practice Research Design Questions
 Don't restate the question in your answer:
 Define any psychological terms first then answer.
 Use 'whereas' in comparative questions
 Use 'So,So' in explain questions
 Be specific to the question
 Multiple Choice-Tick, Cross, Question Mark
 BUG
 Read & ReRead Sample Exam Solutions

10.<u>http://www.tsfx.com.au/wp-</u>

content/uploads/2014/09/vce-2014-study-tip-23unit-34-psychology-exam-advice-final.pdf

