

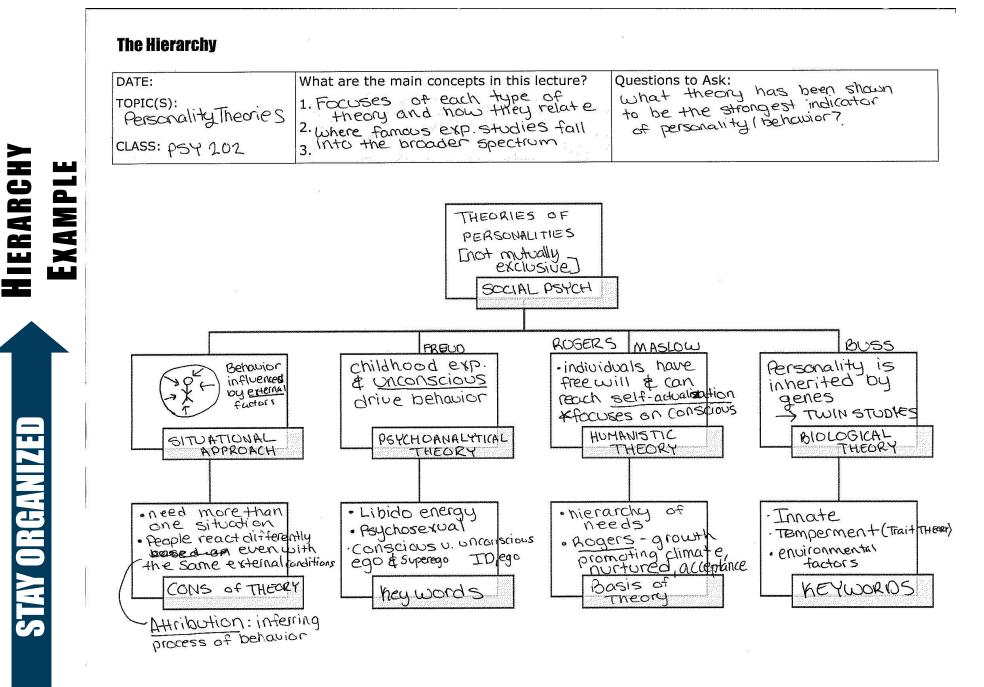
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DIY EXAMPL STAY ORGANIZED

Oregon State

Jniversity



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The Instruction Manual

DATE:	What are the main concepts i	n this lecture?		
TOPIC(S):	1. Basic U-Subs.			
U-Substitution CLASS: 252	2. Recognizing Patterns 3. Chain Rule			
	em Example:	Steps of the Problem:		
$\int (3x^2 + 2x)$	$e^{(X^3+X^2)}dx$	How are the exponents & Coefficients related?		
Recognize: exponent of e $U = \chi^3 + \chi^2$	is coefficient	make a u variable that includes as much as possible		
$du = (3x^{2} + 2x)$ $du = (3x^{2} + 2x)$ $\int (3x^{2} + 2x) dx$		pretend duldx is a fraction, multiply both sides by dx-do this so you can rewrite the original problem easier		
$\int e^{\nu} d\nu = e$		Substitute U in the original formula Take a deriviative as usual		
$= e^{\chi^3 + \chi^2} + C$		substitute the original value back in derived answer		
If I get stuck on this typ	e of problem, review or check:	Questions to Ask:		
• Unwind chain • What patterns • Could I make	s do I recognize?	what du I do if U does not exactly equal du? Could you do this with multiple variables?		



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INSTRUCTION MANUAL EXAMPLE STAY ORGANIZED

The Matrix

DATE:	What are the main concepts in this lecture?	Questions to Ask:
TOPIC(S):	1. Risk factors of cardiopathologies	why do B-blochers work for
Cardiopathologies	2. Symptoms of Cardiopathologies	some pathologies but not
CLASS: anatomy	3. Treatment of Cardiopathologies	others?

Theory/Concept:	Definition:	Characteristic 1: RISK FALTORS	Characteristic 2:	Characteristic 3: Treatment
Coronary artery disease	Diod carriger u	Framing ham Heart study • hypertension <u>modifable</u> : (hlosterol (LDY) <u>non-modifable</u> : age, sex, race, genes	 Chest pain. (Crushing pain) radiated pain natisea [bomiting shortness of breath 	 "Clot-busting" meds(aspirin) B-blockers "Nitrates anticoagulents
Stroke (Ischemic)	75:1. of all strokes 1. embolism (traveling mass) 2. thrombotic (happens in blood cutoff spot, does by clot, brain tissue dies	· Otherosclerosis · see CAD	 numbress/ weakness Trouble speaking or comprehension 	• aspirin • Thrombolitic
Stroke (Hemorrhagic)	Trauma causes vessels to break, causes cascade of brain death	•aneursym •ar-leriouenous	 Trouble seeing Wone or Dotheyes Dizziness 	• anti-hypertensive • head elevated • lower head pressure
Cardiomyo- pathy	Issue with values of the (?, causing power failure, decreased pumping, or a blockage	• diet (fNa+) • alcohol (drug abuse • Uiral infections	 Increased breathing edema weakness 	 low salt diet, dieritics ace inhibitors 13 - blockers

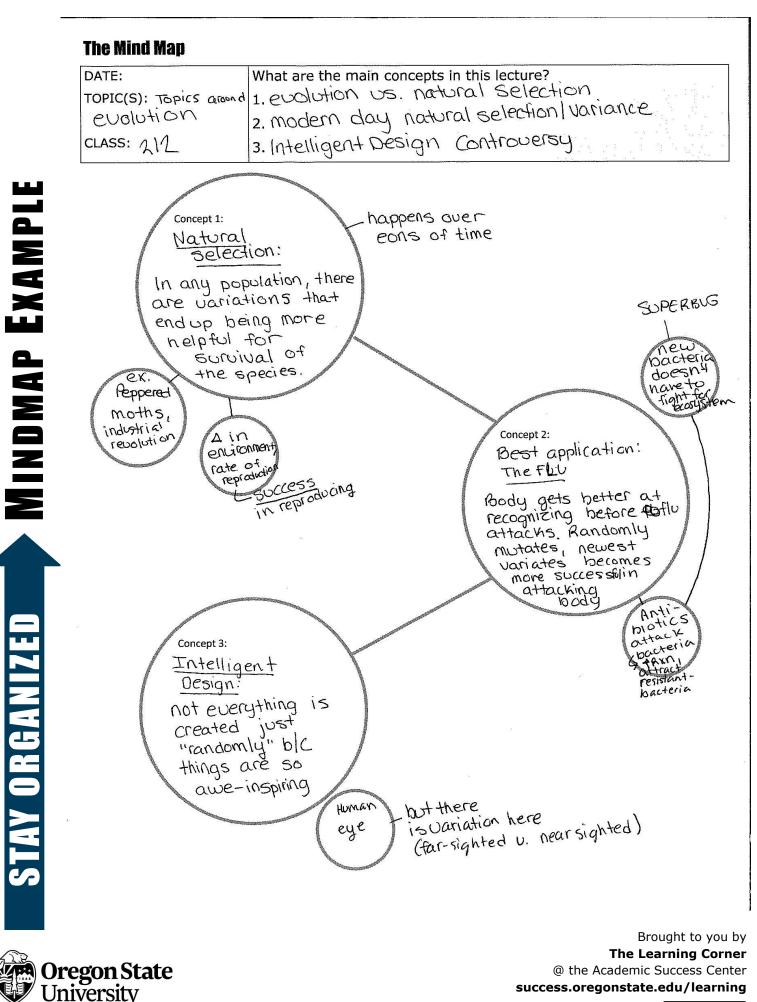


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MATRIX EXAMPLE

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The Outline

ne vutiine		
DATE: TOPIC(S): Birth	What are the main concepts in this lecture? 1. what a massive staris 2. How stars' radius get bigger 2. How stars' radius get bigger	
massivestars CLASS:	2. How stars tubles y 3. why Iron is the last core to form	References:
Questions to Ask:	Class Notes:	References.
what is happeining during H-Fusion?	massive = >9x SUN <u>Review</u> : gravity pulls [Happens@IOMilK] hydrogen atoms -> H-Fusion together (a plasma)	pg. 83
What's the reason behind this order of elements? Fe is endothermic why Ni w/Fe?	requires energy *How the heavier elements form	Lec. 5 (5123) Pg. 87
		2
Words & Theories t Define:		
Massive Star Ignition mechanist enduthermic Supernova	massive stars go through the same as regular stars, only they have energy. So B/C of the Penergy, more ato fuse, and Afusion -> A release in e This keeps going until non b/C non fuse without extra energy in. This is is a stable metal & fusion & stabi	ms can nergy. 1 can4 blc; Fe

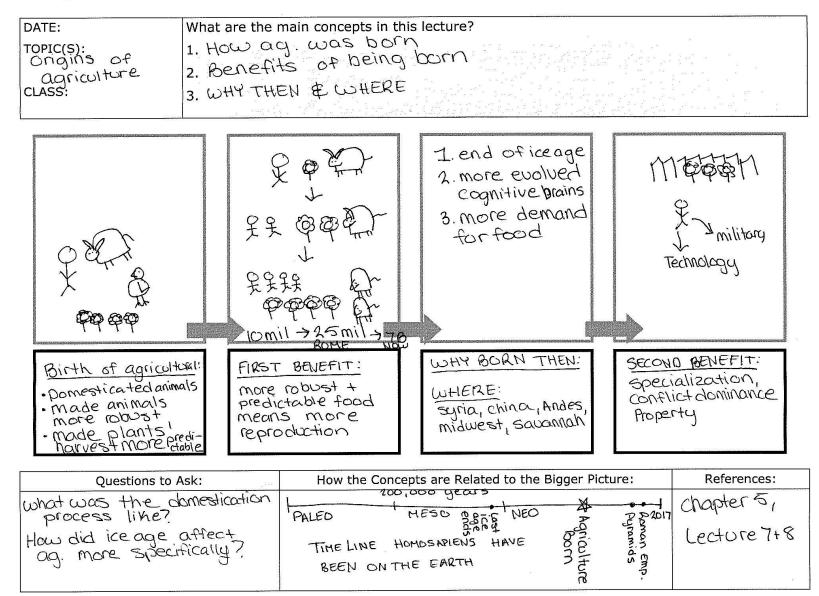


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OUTLINE EXAMPLE STAY ORGANIZED

The Storyboard





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STORYBOARD Example **STAY ORGANIZED**