The Need for Psychological Science 09/15/21 Humans can't rely of an intuition and common sense to access knowledge by Newromyths: theories/ideas that have been invalidate by research. - Left and right brains Us both hemispheres work together for ALL cognitive by there are some functional as asymmetries: one hemisphere can be dominant for some very specific tasks. -Difference between men and women browns by "men and women are so different so their brains must be too " -> no. Lo physiologically men's bravies are on average heavier and more poraus, women's brown's are lighter and more dense. - this doesn't change anything though - Learning Styles trusually applied to children: "they should be tauaght with their preferred learning style" >> no * we learn through different sensory channels (sight, hearing, movement etc) which are all processed in different parts of the brain. Alternating ways of learning is enriches the learning process, so combine different approaches -Study strategy: rereading notes * NOT a good way to study by illusion of learning: rereading results in greater fluency (meaning the reading becomes easier and easier). But fluency doesn't mean a better memory or understanding of the material. *active recall methodes are better for studying.

by active recall methodes - teach someone - make knowledge practical, try applying it to your own life. - fest yourself - 10% use of the brown by never has a paint of the brown been found mactive - brain imaging and neurosurgery show that the brown is 100% active. 0 by the braun is a filter that selects to cormating information, which doesn't limit us; it allows us to make sense of the world and helps us develop aur aun personality. by coma = using around 10% of the brown by muth comes from people with crazy abilities - the boy who plays piano by listening once - the guy who can recite the encyclopedia from memory alahe Coapitive Brases - alltomatic (means mostly unconcious, so we're all succeptible/prone to them) errors in reasoning, 0 causing impairment of rational judgment. - they're the bosis of your undexstanding of reality - the more we can detect them, the broader we can approach everything (have a larger perspective) * houristics: mental shortcluts to make decisions by your brown uses heuristics to evaluate a situation and make a decision rother than a full thoughtaut deliberation process. *Uniqueness Bias - we consider auxselves to be unique upone esco so we see curself as unique. This also works for others as well; the more into we have an someone, the more unique they seem.

-Hindsight Bias Lazancield 1949 - better educated soldrers suffered more adjustment ISSUES. -soldiers from southern climates (vs. northern) cape better with not ist and humid weather -soldiers with rural living backgrounds (vs. city) we re in higher spirits. * all above statements are apposite to what was found - the reader would have labelled the false or true comments statement of "obvious" before heaving the apposite statement. b outer the fact, samething seems obvious by I-knew-it-all-allong phenomena. bodes: tendency to believe exagerate after learning by once you require it you can decrease it - consider the apposite - think about the fact that other aptions are possible. -Overconfidence Illustration by the tendency to think we know more than we actually do. ex. 84% French men believe that they're above awerage lovers ex. 93% u.s. students think they'r above average drivers. ex. 63% faculty at the university of Nebrooka believe they're top 23% for teaching ability. * if we didn't have over-confidence, these figure would be 50% * we tend to be more confident than correct by confidence is good, but over-confidence is bald. - Perceiving order in random events by Laura Bluxton's Story - 10 yr old let go of a ball can to find a penpal - went to agin't with the scure name and age - they were the same height + build + eye colour -swimmers, same pets, pairents maméd same yx us we tend to select specific information to make something more interesting - natural need to make sense of the world by looking for patterns b-random sequences often don't look random br with a large enough sample, any altrageous thing is likely to happen. - conspiracy theories: the brown is wired to see patterns for survival, it got so good at it that it started to see patterns that aven't there Ly works because of confirmation bios, only seeing information that confirms your belief. - Confirmation Bios by the tendency to listen only to the information that confirms our preconceptions by without it we'd be lost; couldn't piece everything together. -Observer-expectancy effect by the tendency for our expectations to influence how an autcome is perceived ex, Clever horse by they acked someone else (someone who didn't Know the auswers to ask the horse the questions by the horse was only clever because it picked up unconscious cues from its trainer. ex. Dull vs. Clever rails (Rosenthal + Fode, 1963)
Usque students rails, told them that some were
dumb and some were smart

TEX WAS UNIQUE INVY UN.

EL.

ls note were put in mazes by the "smart" rats got all factor - the students caused the difference by to avoid this effect: avoid expectations by using a dauble-blind procedure. -The Anchoring Bias by people are over-reliant on the first piece of information they bear ex. due whole - is the due whole taller than 49m? * the more precise the number is, the better it anchor *the more unlikely the number is, the better the ourcharing as well. * the 49° anchored you which has an impact on your answer to the question. -Sunk Cost Fallacy by the tendency to continue with a project if one has already itivested (money, time, effort etc.) even wh en continuing isn't the rollional thing to do. by the more time/money/effort were spent, the stronger the bias will be ex. the ski thip example - Cognitive Dissonance b- the psychological disconfort that we feel when our mind entertains to two concepts, that contractict eachother, at the same time. ex. "I should smoke because I enjay it" and "I shouldn't smoke because it causes cancer". Hibrory