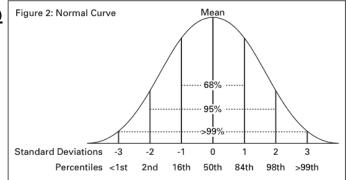
Unit 1 History and Approaches

Wundt's contributions James' Contributions introspection structuralism Gestalt psychology Industrial/Organizational psychologists different perspectives and how they view behavior

Unit 2 Research Methods (much more than this!)

Correlations and r scores longitudinal vs. cross-sectional research normal distribution percentages z scores skewed distributions positive (mean larger than median) negative (median larger than mean) randomization representative sample reliability vs. validity statistical significance = p score **Experimenter Bias** Hawthorne Effect participant vs. situation relevant confounding variables double vs. single blind



Unit 3 – Cognition

Thinking

algorithm - formula that guarantees correct solution

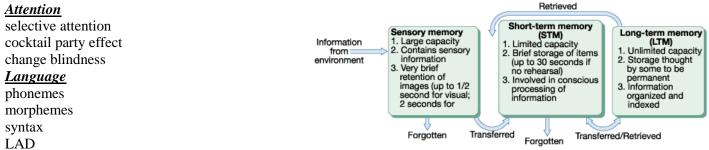
prototype – the most typical example of a concept (like a robin for a bird)

heuristics (representativeness and availability)

biases (belief bias and confirmation bias)

framing – how a question or situation is framed(set-up) may cause a person to think a certain way about it serial position effect (recency and primacy effect)

Attention



linguistic relativity hypothesis – how we label things might control our thinking about them

Memory/forgetting

anterograde amnesia - can't remember new

retrograde amnesia – can't remember old (retro stuff)

proactive interference – newly learned stuff hard to retrieve because of interference of the old stuff retroactive interference – old stuff having hard time being remembered because of interference of the new sensory memory

iconic vs.echoic memory

_ short term memory

limited, chunking helps, mnemonic devices

long term memory

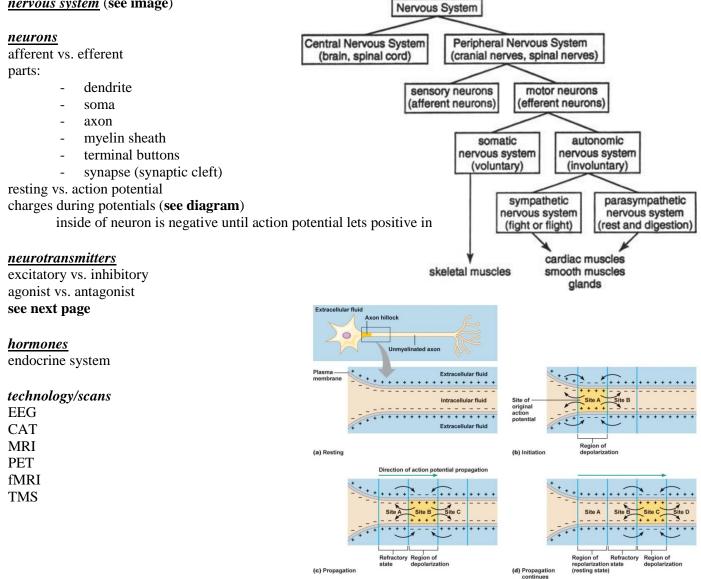
- declarative = episodic and semantic (explicit)
- non-declarative = procedural (implicit) in cerebellum
- prospective memory remembering to do something at the right time later _
- cue vs. state dependent

Unit 4 – Biological Psych

brain parts and functions

- medulla/pons/brain stem control stuff that keeps us alive
- cerebellum balance/coordination/ stores implicit-procedural memories _
- _ limbic system
 - 0 thalamus – sends sensation signals to right part of brain
 - hypothalamus controls temp, arousal, thirst, hunger, metabolism 0
 - amygdala vital to emotions/aggression 0
 - hippocampus converts STM to LTM 0
- cerebral cortex what each hemisphere does (Left = language, right = spatial/facial)
- corpus collosum
- lobes:
 - frontal (pre-frontal cortex) decision making/thinking 0
 - temporal hearing 0
 - occipital vision 0
 - parietal touch and movement ("sensory" and "motor" cortex) 0
- specialized areas:
 - Broca's in frontal controls muscles involved in speech 0
 - Wernicke's in temporal interprets speech 0



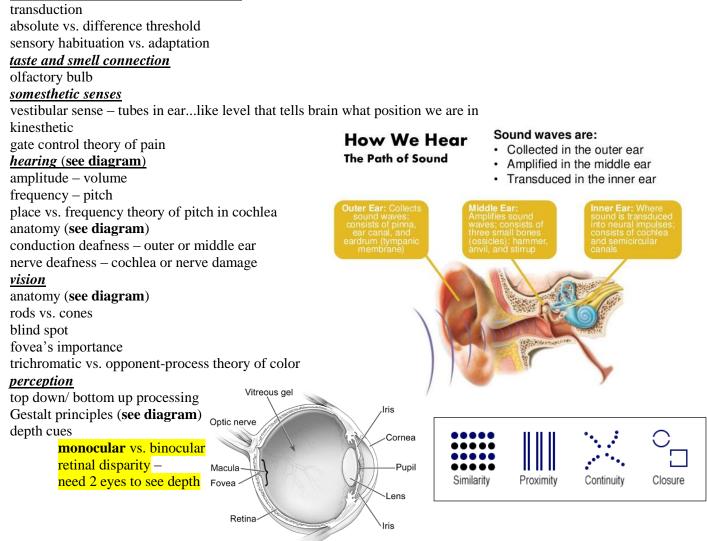


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	Summary of the	Known Major	r Neurotransmitters
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Neurotransmitter	Function	Effect of Deficit	Effect of Surplus
Acetylcholine	Excitatory: It produces muscle contractions	Paralysis;	Violent muscle contractions
(ACh)	and is found in the motor neurons; in the	A factor associated with	
	hippocampus, it is involved in memory	Alzheimer's disease: levels of	
	formation, learning and general intellectual	acetylcholine are severely	
	function.	reduced associated with memory	
		impairment.	
Dopamine	Excitatory: involved in voluntary muscle	Muscle rigidity;	One factor associated with
	movements, attention, learning, memory,	A factor associated with	schizophrenia-like symptoms
	and emotional arousal and rewarding	Parkinson's disease: degeneration	such as hallucinations and
	sensations	of neurons in the substantia nigra	perceptual disorders,
		that produce dopamine.	addiction
Serotonin	Inhibitory or excitatory: involved in mood,	Anxiety, mood disorders,	Autism
	sexual behavior, pain perception, sleep,	insomnia;	
	eating behavior, maintaining a normal body	One factor associated with	
	temperature and hormonal state	obsessive-compulsive disorder	
		and depression	
Endorphins	Inhibitory: regulates pain perception and	Body experiences pain	Body may not give adequate
	involved in sexuality, pregnancy, labor, and		warning about pain
	positive emotions associated with aerobic		
	exercise—the brains natural opiates.		
Norepinephrine	Excitatory and inhibitory: involved in	One factor associated with	Anxiety
	increasing heartbeat, arousal, learning,	depression.	
	memory, and eating		
GABA (gamma	Inhibitory: communicates messages to	Destruction of GABA-producing	Sleep and eating disorders
aminobutyric acid)	other neurons, helping to balance and offset	neurons in Huntington's disease	
	excitatory messages. It is also involved in	produces tremors and loss of	
	allergies	motor control, as well as	
		personality changes.	

<u>Unit 5 – Sensation and Perception</u>



Unit 6 – States of Consciousness

hypnosis

- dissociation
- heightened suggestibility
- role-playing theory

drugs (see image)

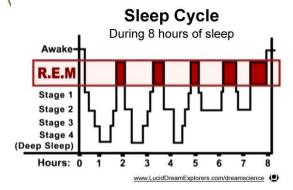
sleep cycles (see image)

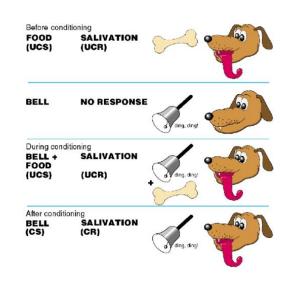
- REM – decrease in movement/increase in dreams circadian rhythm

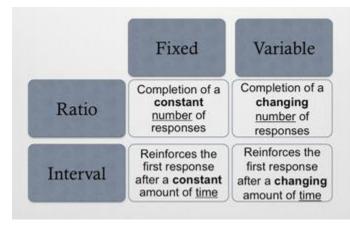
Categories of drugs

- Opiates (eg. heroin)
- Stimulants (eg. cocaine)
- Depressants (eg. alcohol)
- Minor Tranquillisers (eg. valum)
- Hallucinogens (magic mushrooms)
- Cannabis
- Solvents (eg. Aerosol cans etc.)
- 'Herbal Highs' (now illegal)
 Tobacco (eg. cigarettes)









<u>Unit 7 – Learning</u> <u>Classical conditioning</u>

- Pavlov
- involuntary responses (like drool, flinch)
- UCS, UCR, NS, CS, CR
- higher order conditioning
- generalization vs. discrimination
- extinction
- spontaneous recovery

Operant conditioning

- Thorndike and Skinner
- shaping vs. chaining
- law of effect beh. increases with reward
 beh. decreases with punishment
- positive vs. negative rewards
- positive vs. negative punishments
 - schedules of reinforcement
 - o fixed ratio
 - fixed interval
 - o variable ration
 - o variable interval
- primary vs. secondary reinforcers
- token economy

Observational Learning

- Bandura and bobo
 - observation, imitation/modeling

Latent Learning

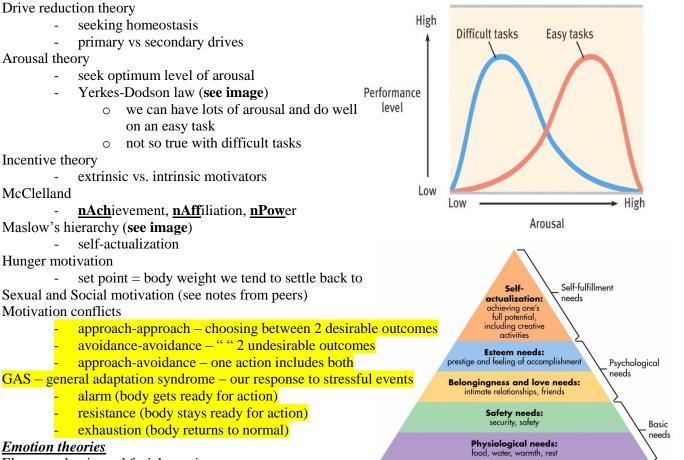
- cognitive maps/Tolman

Insight Learning

- Kohlberg and chimps

Unit 8 – Motivation and Emotion

<u>motivation theories</u>



Ekman and universal facial emotions

James-Lange

- body reacts first, mind interprets that as emotion

Cannon-Bard

- biological and cognitive reaction occur at same time

Schachter-Singer

- emotion depends on cognitive and biolical interacting with one another

Facial Feedback

- we interpret emotion based on facial muscles

<u>Unit 9 – Developmental</u>

longitudinal vs. cross-sectional

<u>Piaget</u>

- accommodation vs. assimilation
- Stages:
 - o sensori-motor
 - o pre-operational
 - o concrete-operational
 - o formal-operational

- conservation, theory of mind, object permanence

<u>Vygotsky</u>

- ZPD

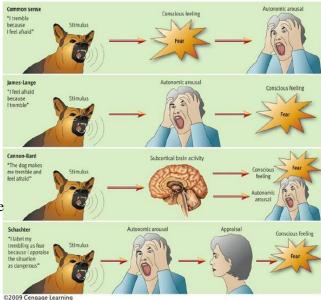
- scaffolding

Thomas and Chess

- temperament biological
- easy, difficult, slow to warm up

<u>Attachment</u>

- Harlow and monkeys
- Ainsworth and strange situation (secure, avoidant, ambivalent/resistant) -effect on adulthood



<u>Erikson</u>

- conflicts
- 8 stages (see image)

<u>Kohlberg</u>

- stages of morality
- Gilligan's gender critique

Baumrind

parenting styles

- \circ authoritarian
- o permissive
 - neglect
 - indulgent
- o authoritative

Erikson's Stages of Psychosocial Development

Approximate Age	Psycho Social Crisis
Infant - 18 months	Trust vs. Mistrust
18 months - 3 years	Autonomy vs. Shame & Doubt
3 - 5 years	Initiative vs. Guilt
5 -13 years	Industry vs. Inferiority
13 - 21	Identity vs. Role Confusion
21- 39 years	Intimacy vs. Isolation
40 - 65 years	Generativity vs. Stagnation
65 and older	Ego Integrity vs. Despair

<u>Unit 10 – Social Psych.</u>

<u>conformity</u>

- Asch study basics
- when were ppl less likely to conform?

Group effects

- diffusion of responsibility/deindividuation
- bystander effect
- group think
- group polarization groups tend to make more extreme decisions than individuals
- social facilitation vs. social loafing

<u>obedience</u>

- Milgram basics
- when were ppl less likely to obey
- power of authority figure

compliance and persuasion

- foot-in-the-door, door-in-the-face, etc.
- central vs. peripheral route of persuasion

<u>stereotypes/prejudice</u>

- stereotype threat/self-fulfilling prophecy
- social identity theory
 - coming together for common goal helps bring opposing groups together

<u>attribution</u>

- dispositional vs. situational
- self-serving bias
- fundamental attribution error
 - just-world hypothesis people get what they deserve morally...the world evens out

<u>attraction</u>

- mere exposure effect
- similarities = good

<u>cognitive dissonance</u>

<u>Unit 11 – Testing and Individual Differences</u>

standardization – norms have been est. by testing similar populations and seeing how they do reliability – consistent results if done again?

validity

- construct validity content validity predictive validity
- test-retest validity

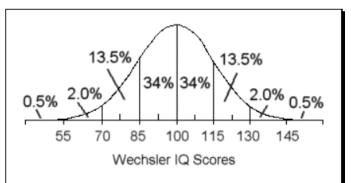
achievement test – what one has already learned aptitude tests – measures predicted potential *intelligence theories*

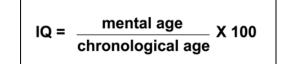
- Spearman g factor
- Gardner multiple intell.
- Goleman emotional intell.
- Sternberg 3 (analytic, practical, creative)

<u>intelligence tests</u>

Binet – from France – used it to help school kids Terman – from U.S. – $IQ \rightarrow$

fluid intelligence – reasoning, abstract, problem solving crystalized intelligence – knowledge from prior learning IQ and twin studies – about 50% genetic Flynn Effect – IQ is going up with each generation





Conscious

Precon

SUPER-EGO

EGO

ID

<u>Unit 12 – Personality</u>

Freud ("Froyd" ^(C))

- Stages: oral, anal, phallic, (latency), genital
- Id (and pleasure principle), Ego (and reality principle), and SuperEgo
- Criticism: not supported by empirical research
- Defense Mechanisms (see chart)

			SOL
Mechanism	Description	Example	5
Repression	Repression is an unconscious mechanism employed by the ego to keep disturbing or threatening thoughts from becoming conscious.	During the Oedipus complex aggressive thoughts about the same sex parents are repressed	Unconscious
Denial	Denial involves blocking external events from awareness. If some situation is just too much to handle, the person just refuses to experience it.	For example, smokers may refuse to admit to themselves that smoking is bad for their health.	
Projection	This involves individuals attributing their own unacceptable thoughts, feeling and motives to another person.	You might hate someone, but your superego tells you that such hatred is unacceptable. You can 'solve' the problem by believing that they hate you.	
Displacement	Satisfying an impulse (e.g. aggression) with a substitute object.	Someone who is frustrated by his or her boss at work may go home and kick the dog,	
Regression	This is a movement back in psychological time when one is faced with stress.	A child may begin to suck their thumb again or wet the bed when they need to spend some time in the hospital.	
Sublimation	Satisfying an impulse (e.g. aggression) with a substitute object. In a socially acceptable way.	Sport is an example of putting our emotions (e.g. aggression) into	

something constructive.

<u>Jung</u> – collective unconscious

<u>Adler</u> – feelings of inferiority/superiority

Trait theories

- Big 5 (o.c.e.a.n.)/ factor analysis
- thought to be stable and biological
- criticism: underestimates power or situation in people's behavior
- **Bandura** self-efficacy
- <u>Humanist</u> Rogers self-actualization by giving unconditional positive regard

Personality Assessments

- Rorschach and TAT ambiguous figures...ppl say what they think...tells personality (projective test)
- MMPI self-report inventory

<u>Unit 13 – Abnormal Psych and Treatment</u>

what makes behavior abnormal? importance of DSM 5

Perspective	Cause of Disorder
Psychoanalytic/psychodynamic	Internal, unconscious conflicts
Humanistic	Failure to strive toward one's potential or bein out of touch with one's feelings
Behavioral	Reinforcement history, the environment
Cognitive	Irrational, dysfunctional thoughts or ways of thinking
Sociocultural	Dysfunctional society
Biomedical	Organic problems, biochemical imbalances, genetic predispositions

<u>Abnormal Disorders</u>

*know general symptoms/ how genetically linked/ therapies used

Mood – bipolar, major depressive, seasonal affective disorder

Anxiety-like– generalized anxiety (GAD), panic disorder, OCD (now own category), PTSD (now "stress-based" disorder)

Dissociative – "mind splitting" – DID, dissociative fugue – goes along with psychoanalytic/repression **Schizophrenia** – delusions, hallucinations, flat affect, paranoia, - anti-psychotics used

Somatoform – conversion disorder.... hard to treat

Personality – anti-social, narcissistic, borderline

Eating – anorexia, bulimia, binge-eating

<u>Treatments</u>

- primary prevention tries to prevent disorders through societal measures (helping poverty, joblessness)
- secondary prevention tries to prevent disorders by working with at risk populations (like soldiers)
- tertiary prevention keeping ppl with disorder from becoming more severe

eclectic approach to therapy – most therapists use a variety of types

psychoanalytic therapy

- hypnosis, dream anlysis to get repressed events/unconscious conflicts into consciousness
- transference the redirection of feelings and desires and especially of those unconsciously retained from childhood toward a new object

Humanistic therapy

- try to get people to self-actualization
- Rogers client/person-centered therapy uses unconditional positive regard
- self-help, support groups

Behavioral therapy

- Classical conditioning counterconditioning or aversive conditioning
- systematic desensitization
 - o in vivo (actually confronts fears)
 - covert (patient imagines the fearful situation)
 - o starts with relaxation techniques then works way up to anxiety-producing thing
- token economies (operant conditioning)

Cognitive therapy

- helps people form healthy attributional style (all bad things are *not* your fault)
- Beck's cognitive therapy cognitive triad (see next line)
 - \circ challenges patient's negative thoughts about 1 self, 2 world, 3 their future

Cognitive-Behavioral therapy

- Rational-emotive behavioral therapy (REBT) Ellis patient focuses on irrational thoughts and behaviors and are exposed to those behaviors (expose and confront)
- Exposure-response prevention (what we saw for OCD)
- *ECT* electro-convulsive therapy (depression severe)

group therapy advantages - cheaper, provides support from those that know what it's like

Drug therapies (see chart)

Anti-	SSRIs	Selective serotonin reuptake inhibitors – keeps Paxil, Prozac,	
depressants		serotonin available longer	Zoloft
		Bipolor – mood stabilizers- \rightarrow	→lithium
Anti-anxiety	Benzodiazepines	Depresses activity in central nervous system	Xanax, Valium
Anti-psychotics	(for	Block receptor sites for dopamine – can cause	Thorazine
	Schizophrenia)	tardive dyskinesia – constant muscle tremors	