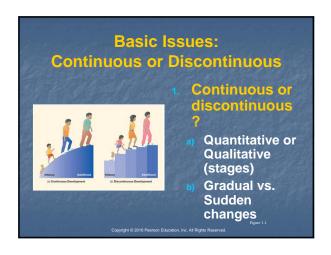




Theory An orderly, integrated set of statements that describes explains predicts Behavior Must be tested and validated scientifically Metap and Processions Market Particulary Metap and Processions

Basic Issues in Development Continuous or discontinuous? One course of development or many? Nature or nurture?



Contexts of Development Unique combinations of personal (genetic) environment circumstances can result in different paths of development. Figure 2010 Person Educator, to: Al Rights Reservel

Basic Issues: Nature and Nurture

Nature

Inborn, biological givens
Based on genetic inheritance

Nurture

Physical and social world that influences biological and psychological development

Copyright © 2010 Pearson Education, Inc. All Rights Reserver

Stability and Plasticity

Stability

Individuals high or low in a characteristic remain so at later ages.

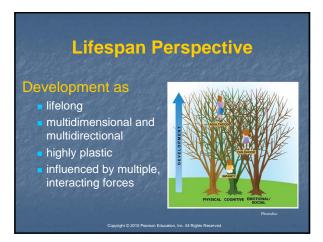
Early experience may a have lifelong impact.

Plasticity

Change is possible, based on experiences.

Copyright © 2010 Pearson Education, Inc. All Rights Reserv

Development as a Dynamic System Perpetually ongoing process Conception to death Influences on development biological psychological psychological social



Prenatal	Conception to birth
nfancy and oddlerhood	Birth to 2 years
Early childhood	2 to 6 years
Middle childhood	6 to 11 years
Adolescence	11 to 18 years
Early adulthood	18 to 40 years
Middle adulthood	40 to 65 years
ate adulthood	65 years to death

Philosophies of Adulthood and Aging

- **Tetens**
 - Origin and extent of individual differences
 Change during adulthood compensation for declines
 Impact of historical era on life course



Carus

Identified four periods of life

- Childhood
- Adulthood
- Senescence

Philosophies of Childhood

Medieval: Contradictory beliefs about children's basic nature Puritan: Children as inherently evil and stubborn

Locke: Tabula rasa

children as blank slates shaped by experience

Rousseau: Noble savages

children as naturally healthy and moral

Copyright © Allyn & Bacon 2007



John Locke famous quote

"Let us then suppose the mind to be...white paper, void of all characters, without any ideas; how comes it to be furnished? Whence comes it by that vast store, which the busy and boundless fancy of man has painted on it with an almost endless variety? Whence has it all the materials of reason and knowledge? To this I answer, in one word, from experience; in that, all our knowledge is founded, and from that it ultimately derives itself"

Locke, 1690/1963 pp 82-3

Famous Watson Quote

"Give me a dozen healthy infants, well-formed, and my own specified world to bring them up in, and I'll guarantee to take any one at random and train him to become any type of specialist I might select—a doctor, lawyer, artist, merchantchief, and, yes, even into a beggar-man and thief, regardless of his talents, penchants, tendencies, abilities, vocations and race of his ancestors". [Watson, 1924, p. 10]

Major Domains of Development Figure 19 to see processor and processor a



Resilience The ability to adapt effectively in the face of threats to development Factors in resilience personal characteristics warm parental relationship social support outside family community resources and opportunities

Key Principles of Darwin's Theory of Evolution

Natural Selection

Species have characteristics that are adapted (or fit) to their environments.

Survival of the Fittest

Individuals best adapted to their environments survive to reproduce. Their genes are passed to later generations.

Copyright © 2010 Pearson Education, Inc. All Rights Reserved

Early Scientific Study of Development

Normative Approach

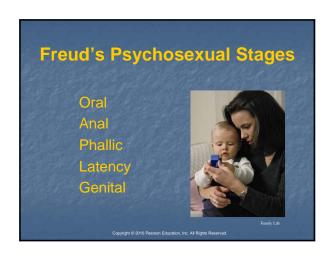
- · Hall, Gesell
- Measured large numbers of people
- Age-related averages

Mental Testing Movement

- Binet and Simon
- Intelligence tests

Psychoanalytic Perspective Conflicts biological drives social expectations Freud and Erikson Emphasis on unique life history

Freud's Three Parts of the Personality Largest portion of the mind Unconscious, present at birth Source of biological needs/desires Conscious, rational part of mind Emerges in early infancy Redirects id impulses acceptably The conscience Develops from ages 3 to 6 from interactions with caregivers



Erikson's Psychosocial Theory

Development is influenced by common cultural demands.

Ego – develops attitudes and skills at each stage

solution of a crisis or psychological conflict. Healthy development requires a favorable

ratio of positive to negative.

Copyright © Allyn &
Bacon 2007

Erikson's Psychosocial Stages

Basic trust v. mistrust	Birth to 1 year
Autonomy v. shame/doubt	1–3 years
Initiative v. guilt	3-6 years
Industry v. inferiority	6-11 years
Identity v. role confusion	Adolescence
Intimacy v. isolation	Early adulthood
Generativity v. stagnation	Middle adulthood
Integrity v. despair	Late adulthood

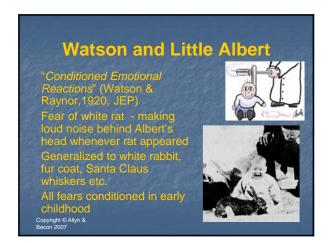
Behaviorism and

Social Learning	
Stimulus- response	
Reinforcers and punishments	
Modeling	

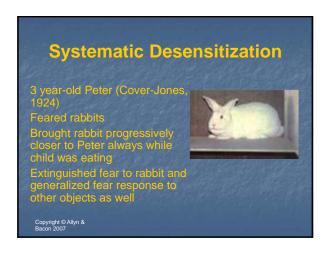
9

Learning Theories Van Pavlov Classical Conditioning Reflex Stimulus – Response connection Unlearned Unconditioned Stimulus elicits Unconditioned Response Food automatically elicits Salivation Learned Conditioned Stimulus elicits Conditioned Response Sound of tone (paired with bacon) elicits Salivation

Learning Theories B.F. Skinner Operant Conditioning Behaviors are dependent on "Reinforcement" Positive Reinforcement Increased chance behavior occurs again Negative Reinforcement I learning that occurs when behavior causes something unpleasant to stop Punishment Shaping Extinction



Learning Theories Mary Cover Jones The mother of behavior therapy Could conditioning technique be used to remove children's fears? Copyright © Allyn & Bacon 2007



Learning Theories Albert Bandura Social Learning Theory Observational Learning Learning that results from seeing a model reinforced or punished for a behavior. Dependent on four factors Attention Memory Physical capabilities Motivation

Vicarious Reinforcement

We don't have to be reinforced ourselves in order to learn something

Visualize yet unexperienced consequence of particular behavior

Mediating mechanism between S & R = the person's cognitive processes

The imagined 'RS affects behavior more than actual RS does
Whoever controls society's models controls behaviors

Models that Influence Human Behavior

Person of same sex and age, peers with

High status and prestige

than highly complex behaviors

Hostile and aggressive behaviors strongly

Can not ignore relevance of social

Bandura's Bobo Doll experiment

1	2
1	_

Contributions/Limitations of Behaviorism Behavior modification modeling, observational learning Narrow view of influences Too little emphasis on unique environmental influences

Copyright © 2010 Pearson Education, Inc. All Rights Reserve

Cognitive Theories

Jean Piaget

- Scheme
 - internal cognitive structure.
- Assimilation
 - process of using schemes to make sense of experiences.
- Accommodation
 - changing a scheme to incorporate new information.
- Equilibration
 - balancing assimilation and accommodation

Copyright © Allyn &

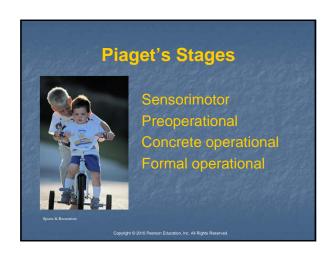
Cognitive-Developmental Theory

Piaget

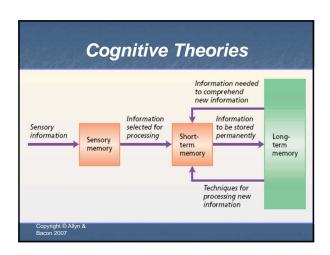
- Children actively construct knowledge.
- Adaptation to environment is made in order to achieve equilibrium.
- All children move through four broad stages.

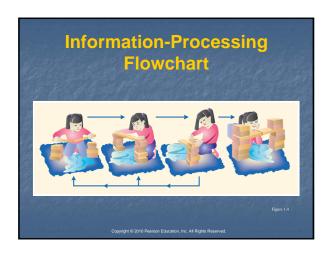
Copyright © 2010 Pearson Education, Inc. All Rights Reserve

-1	



Information-Processing Theory Human brain is symbol-manipulating system input equals experiences output equals behavioral response Development seen as continuously changing, not formal stages





Developmental Cognitive Neuroscience Study of relationships between changes in the brain development of cognition, behavior Brings together researchers from psychology biology neuroscience medicine

Ethology Study of adaptive value of behavior and its evolutionary history critical period sensitive period

Critical Period

Individuals:

- biologically prepared to acquire adaptive behaviors during limited time span
- need support of an appropriately stimulating environment

Convright © 2010 Pearson Education Inc. All Rights Reserve

Sensitive Period

Optimal time Individual is especially responsive Later development hard to induce

Boundaries less defined



Copyright © 2010 Pearson Education, Inc. All Rights Reserved.

Evolutionary Developmental Psychology

Seeks to understand adaptive value of human competencies

Studies cognitive, emotional, and social competencies and change with age Expands upon ethology

Copyright © 2010 Pearson Education, Inc. All Rights Reserve

Vygotsky's Sociocultural Theory Transmission of culture to a new generation evalues, beliefs, customs, skills Social interaction necessary cooperative dialogues with more knowledgeable members of society





	C	omparing T	Thec	ories	
Sprago	Theory	Main Ideas	Active or Passive?	Nature or Nurture?	Stages or No Stages?
Psychoanalytic Theories	Freud's Psychosexual Theory	Personality develops in five stages from birth to adolescence; in each stage, the need for physical pleasure is focused on a different part of the body.	Passive	Nature	Stages
	Erikson's Psychosocial Theory	Personality develops through eight life crises across the entire lifespan; a person finishes each crisis with either a good or a poor resolution.	Passive	Both	Stages
Cognitive Theories	Piaget's Cognitive- Developmental Theory	Reasoning develops in four universal stages from birth through adolescence; in each stage, the child builds a different kind of scheme.	Active	Both	Stages
	Vygotsky's Sociocultural Theory	Social interaction is critical to the development of thinking and problem- solving; stages in the development of reasoning reflect internalized language.	Active	Both	Stages
	Information- Processing Theories	The computer is used as a model for human cognitive functioning; encoding, storage, and retrieval processes change with age, causing changes in memory function.	Active	Both	Some theories have stages; others do not
Learning Theories	Classical Conditioning	Learning happens when neutral stimuli become so strongly associated with natural stimuli that they elicit the same responses.	Passive	Nurture	No stages
	Operant Conditioning	Development involves behavior changes that are shaped by reinforcement and punishment.	Passive	Nurture	No stages
	Bandura's Social Cognitive Theory	People learn from models; what they learn from a model depends on how they interpret the situation cognitively and emotionally.	Active	Nurture	No stages

Comparing Theories Evaluation of Usefulness of each theory Generate predictions that can be tested.

- Heuristic value the degree to which it stimulates research.
- Practical value.
- Explain the basic facts of development.

Choosing a

- systematic observations
- self-reports
- clinical or case studies
- ethnographies

Research	Strategy
Methods	Research Design

permits the best test of research question

Systematic Observation Naturalistic Observation In the "field" or natural environment where behavior happens All participants have equal chance to display behavior

Self-Reports Clinical Interview Flexible, conversational style Probes for participant's point of view Structured Interview Each participant is asked same questions in same way May use questionnaires, get answers from groups

Clinical/Case Study Brings together a wide range of information on one person interviews observations test scores Lucy Suzze Capyrigh © 2010 Passzon Education, Inc. Al Picytes Reserved.

Ethnography Descriptive, qualitative technique Goal is to understand a culture or social group Participant observation researcher lives in community for months or years Capitique Q 2010 Passon Education, Inc. Al Rights Reserved.

General Research Designs

Correlational

relationships between variables Does NOT reveal cause-and-effect

Experimental

Allows cause-andeffect statements Lab experiments may not apply in the real world

Copyright © 2010 Pearson Education, Inc. All Rights Reserved

Correlation Coefficients

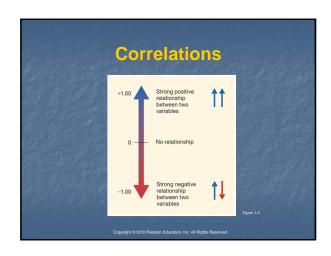
Magnitude

between 0 and 1
Closer to 1 (positive or negative) is a stronger relationship

Direction

Positive (+): as one variable increases, so does the other
Negative (-): as one variable increase, the other decreases

Copyright © 2010 Pearson Education, Inc. All Rights Reserve

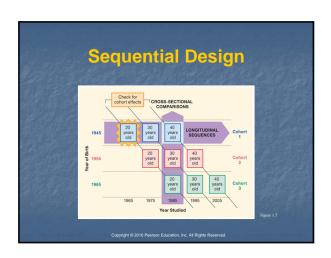


Independent and Dependent Variables Independent Changed or Measured, but not manipulated by experimenter Expected to cause changes in another variable Independent Dependent Measured, but not manipulated, by experimenter Expected to be influenced by the independent variable

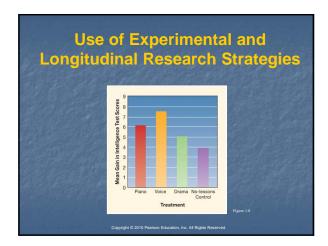
Researchers use unbiased procedure to assign participants to treatment conditions. Increases chances that characteristics will be equally distributed across conditions.

Modified Experiments Field Experiment Capitalize on opportunities for random assignment in natural settings Copyligh © 2010 Pearson Education, Inc. Al Rights Reserved.

Developmental Research Designs	
Longitudinal	Same group studied at different times
Cross- Sectional	Differing groups studied at the same time
Sequential	Several similar cross- sectional or longitudinal studies at varying times
Copyright © 2010 Pearson Education, Inc. All Rights Reserved.	



Problems in Conducting Longitudinal Research Participants drop out, move away Practice effects Cohort effects Digital Vision Fall Education, Inc. Al Rights Reserved.



Rights of Research Participants Protection from harm Informed consent Privacy Knowledge of results Beneficial treatments