Chapter 2: The Research Enterprise in Psychology	
Looking for Laws: The Scientific Approach to Behavior Basic assumption: events are governed by some Goals:	
Why Do Research?	

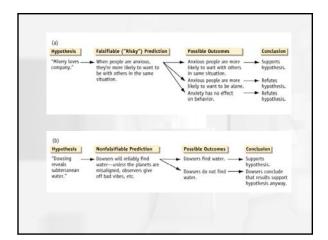
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Features of Psychology		
Features of Psychology		
	is the only way to really know!!!	
	Features of Psychology	
Research		
	Research	
		-

(hopefully)	
Research questions based on , with specific, refutable (more on this later)	
System of used to explain a series of observations	
Specifies relationships among	
, and are definitions define terms in hypotheses by specifying the	
 define terms in hypotheses by specifying the for observing and measuring the process or phenomenon. Clarifies exactly what is being studied. 	
Problem with Precision	
Often, very difficult to achieve!	
 Especially with "applied" research Lots of extraneous variables that are difficult to control 	
Example : Positive interactions with peer improves self-esteem	
Potential	
 Scientists do not accept ideas on faith or authority. 	
means treating conclusions, both old and new with caution.	
Example Claim: People emit auras, which can be seen by	
those trained to do so. - Test:???	

Skantiniam, Sajanaa v	
Skepticism: Science v.	
• = "false science"	
Characteristics:– associates itself with	
relies on and acceptssidesteps	
Does not make refutable, testable predictions dangerously reduces complexity to	
(to a consumer society)	
Critical Thinking, Zadica Signa	
Critical Thinking: Zodiac Signs	
Astrologers say that behavior can be	
predicted by zodiac sign • Testable hypotheses?	-
 Zodiac Personality Characteristics 	
Correspondence?	
D	
Reliance onevidence	
A scientist relies on	
evidence to determine whether a is true.	
 Evidence is evaluated based on accepted standards. 	

Willingness to make "risky

- Principle of _______
 - A scientific theory must make predictions
 enough to confirm and or disconfirm the theory; that is,
 - the theory must predict not only what will happen, but also ______.
- _____ bias.
 - Tendency to look for or pay attention only to information that ______.



- Scientists must be willing to tell others where they got their ideas, how they tested them and what the results were.
- Peer review, publishing and replicating research gives science a built in system of
- Be willing to let go of a ____
 that you have worked very hard on when it is ____ by empirical evidence.

Find a topic of interest Period Review Review Review Develop your and procedures - Index sur no one has done what you're interested in Develop your and procedures - Design the study Undergo Human - Institutional Review Board (RB) - Awinal - Institutional Review Board (RB) - Awinal - Institutional Avinata Care and the Committees Collect and analyzo white submit, & publish Scientific Method in Psychology Careful of behavior Careful of behavior Careful of behavior Conduct Ask everybody (whole Select an unbiased Conduct Ask everybody the same questions Same experiment, etc. Critical thinking Focus of Studies: Measurable conditions, events, characteristics, or behaviors; Manipulated and assessed in scientific studies - Question: What is the effect of ?	1 - 1	
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able 2.1 Key E	ata Collection Techniques in Psychology	
Technique	Description	
Direct observation	Observers are trained to watch and record behavior as objectively and precisely as possible. They may use some instrumentation, such as a stopwatch or video recorder.	
Questionnaire	Subjects are administered a series of written questions designed to obtain information about attitudes, opinions, and specific aspects of their behavior.	
Interview	A face-to-face dialogue is conducted to obtain information about specific aspects of a subject's behavior.	
Psychological test	Subjects are administered a standardized measure to obtain a sample of their behavior. Tests are usually used to assess mental abilities or personality traits.	
Physiological recording	An instrument is used to monitor and record a specific physiological process in a subject. Examples include measures of blood pressure, heart rate, muscle tension, and brain activity.	
Examination of archival records	The researcher analyzes existing institutional records (the archives), such as census, economic, medical, legal, educational, and business records.	
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	Table 2.1 Key Data Collection Techniques in Psychology	

	Research
	= manipulation of one
	= manipulation of one under
conditions so th	at resulting changes in
	can be observed
- Detection of	
	= variable manipulated
	= variable affected by
manipulation	
- How does X	affect Y?
– X =	Variable, and Y =
	Variable

Identifying IVs & DVs

- Which is the best method of treatment for depression: cognitive-behavioral therapy, drug treatment, or no treatment control?
- Is it better to "cram" for a test (massed practice) or better to "space-out" our studying (distributed practice) when trying to remember information for an exam?
- Does the number of people present affect the likelihood that someone will help another person in need?
- Is overall health influenced by one's deepest thoughts, feelings, and attitudes about coming to college?

Quick Quiz

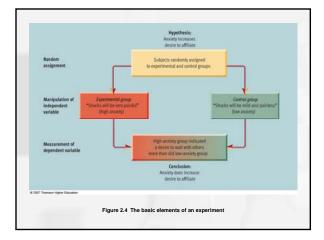
Professor Zappy wants to study the effects of shock on student learning. The dependent variable is:

- A. Shock
- B. Student learning
- C. Professor Zappy
- D. None of the above

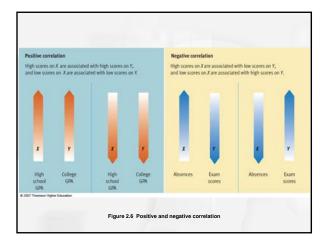
Experimental and Control Groups: The Logic of the Scientific Method

- _____ group
- _____ group
 - _____ assignment
 - Manipulate _____ variable for one group only
 - Resulting differences in the two groups must be due to the independent variable
- _____ and _____

variables



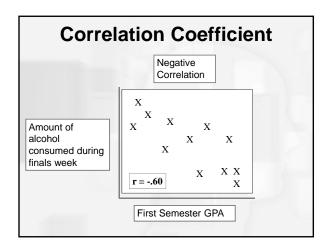
Experimental Designs:	
Formation to the second	
Expose a group to two conditions	
- Reduces variables	
Manipulate more than one	
variable	
 Allows for study of interactions between variables 	
Use more than one variable	
- Obtains a more complete picture of effect of	
the independent variable	
Strengths and Weaknesses	
of Experimental Research	
- conclusions about can	
be drawn	
 nature of experiments 	
– and	
issues	
The Concept of Correlation	
of relationship	
of relationship	
Correlation	
- Correlation	
Correlation and	

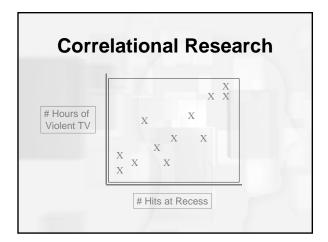


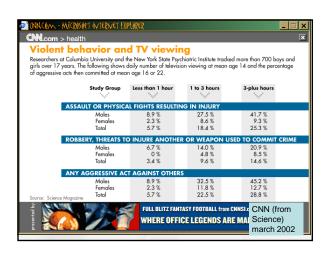
Correlation and Causation

- Correlation shows the strength of the _____ between two variables.
 - A correlation between two variables does not imply that one variable
 _____ the other.
- Correlation _____ mean causation!

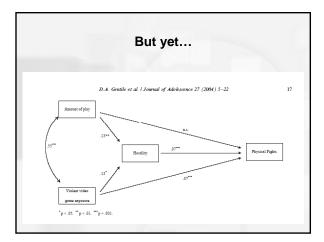
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SAT Score	X X X X X X X X X X X X X X X X X X X

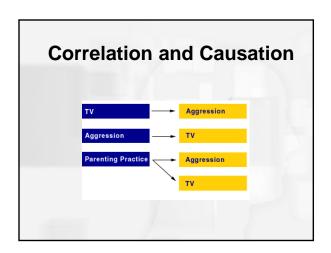






What wa	s that	study?		
Table 4				
Correlations between media habits and parental limit			*** · ·	
	Trait hostility	Arguments with teachers	Physical fights	Grades
Amount variables				
Amount of video game play	0.20***	0.12*	0.21***	-0.25***
Amount of time watching TV	0.20***	0.10*	0.12***	-0.20***
Amount of reading for pleasure	-0.08^{\dagger}	-0.17***	-0.07	0.07^{\dagger}
Violent content variables				
Violent video game exposure	0.21***	0.20***	0.32***	-0.23***
Preferred violence in video games	0.31***	0.25***	0.36***	-0.34***
Preferred violence compared to 2 or 3 years ago	0.23***	0.16**	0.19***	-0.14**
Parental involvement scale	-0.14**	-0.27***	-0.18***	0.27***
p<0.09; *p<0.05; **p<0.01; ***p<0.001.				
p < 0.00, p < 0.00, p < 0.01, p < 0.001.				





Correlations

- The perception of a relationship where
- Examples
 Sugar makes children hyperactive
 Getting cold & wet will make you sick
- Related to perception of __

_ in

- What are the odds of being dealt:
 J (hearts), Q (hearts), A (hearts), K (hearts), 10 (hearts)
 9 (spades), 3 (diamonds), 5 (clubs), 8 (clubs), 6 (hearts)
- One reason why we can't rely on anecdotal evidence!

Methods

• Methods used when a researcher cannot _____ the variables under study

__ observation

· Allow researchers to describe patterns of behavior and discover links or associations between variables but ___ causation

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Freedom to	consent. at any time.		
Freedom toMinimize	consent. at any time.		
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Freedom toMinimizeKeep data	consent at any time		

APA Ethical Guidelines for Research	
ATTA ETHICS OF STATE	
A subject's participation in research should be voluntary and based on informed consent. Subjects should never be recorded into participation in present. Thus should be	
informed in advance about any aspects of the study that never be made available to others without the consent	
might be expected to influence their willingness to cooper- ate. Furthermore, they should be permitted to withdraw	
from a study at any time if they so desire. Harmful or painful procedures imposed upon animals	
Participants should not be exposed to harmful or danger- ous research procedures. This guideline is intended to 5 must be thoroughly justified in terms of the knowledge to be gained from the study. Furthermore, laboratory animals	
protect subjects from psychological as well as physical are entitled to decent living conditions that are spelled out in detailed rules that relate to their housing, cleaning.	
emotional discomfort are largely prohibited. However, feeding, and so forth. procedures that carry a modest risk of moderate mental	
discomfort may be acceptable. Prior to conducting studies, approval should be obtained	
If an investigation requires some deception of participants (about matters that do not involve risks), the researcher tees tees. Research results should be reported fully and acco-	
Is required to explain and correct any misunderstandings rately, and raw data should be promptly shared with other as soon as possible. The deception must be disclosed to professionals who seek to verify substantive claims. Re-	
subjects in "debriefing" sessions as soon as it is practical tractions should be made if significant errors are found in to do so without compromising the goals of the study. a study subsequent to its publication.	
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Figure 2.12 Ethics in research	
TI E(I) (O(I)	
The Ethics of Studying	
have also as because the	
• have always been used in	
a small percentage of psychological studies.	
To conduct basic research on particular species.	
- To discover practical	
To study issues that cannot be studied	-
experimentally with - To clarify questions.	
- To dainy questions To improve	
- 10 improve	
Ethics of Studying	
• IACUC	
_	
Reviews all procedures to be conducted with	-
animals	
- Must use the "" animal species	
possible	
Cell cultures	
- Rodents & birds	
 Rodelits & bilds Larger mammals (dogs & cats → apes) 	

Ethics in	Psycholo	gical Res	search:
Do the	Ends Just	ify the M	eans?

- The question of _______
- The question of _______
 - Controversy among psychologists and the public
- Ethical standards for research: the American Psychological Association
 - Ensures both human and animal subjects are treated with dignity