Name		Group & Table #:	_ Period:		
Lecture Notes	Thinking About Psycholog	y: Module 2: Research St	rategies Page 1		
	Research Methods				
	•Play "Aliens Have Landed" (11:25) Segment #3 from Scientific American Frontiers: Video Collection for Introductory Psychology (2 nd edition).				
	•Follow with a discussion on the unbiased scientific research.				
	S	cientific Method			
	•Technique using tools such as		, and		
	•Technique using tools such as,, and to learn about the world				
	•Through its use, psychology is thereby considered a science.				
	Research and Research Methodology				
	•Method of	then drawing _			
	•Researchers need to be able to(critical to	determine if conclusionsthinking).			
	Common Sense				
	•Conclusions based solely on _		and		
	•Can lead to				
	Observation and Bias Module 2: Research Strategies				
		Observation			
	•Gathering of information by _				
	•Can lead to				
	• 6:4	Bias	.1		
	•Situation in which a factor likelihood of a researcher reaching a particular conclusion		the		
	Bias should be minimized as much as possible in research				
	Researcher Bias				
	•The tendency to notice evidence which supports				
	•Objectivity tends to				
		al Thinking			
	•Thinking that does notquestions their validity		but		

Participant Bias

•Tendency of research subjects to respond in certain w	vays
•The subjects might try to behave in ways they believe	e the
•Can be reduced by	
Naturalistic Observation	
•Method of observation where subjects are observed in	n their
•Subjects arethey are being w	atched
•Could use	
Case Study	
•In depth study of wit determining	h the hopes of
•This technique is very open to	
•Difficulty of applying data from	
Correlational Study	
•Research study designed to determine the degree to w	hich
How to Read a Correlation Positive Correlation	
•As the value of one variable increases (or decreases) other variable.	so does the value of the
•A perfect positive correlation is	
•The closer the correlation is to	·
Negative Correlation	
•As the value of one variable increases, the value of the	e other variable
•A perfect negative correlation is	
•The closer the correlation is to, the strong	er the relationship.
Zero Correlation	
•There is	·
(Page 2 of Module 2 Lecture No	tes)

Name:		_ Table:	Period:	
Lecture Notes	Thinking About Psychology: Module	e 2: Resea	rch Strategies Page 3	
	Correlationa	l Study		
	•Important NOT to imply avariables	relati	onship between the	
	•Correlational study doesthat they are related.		just	
	•Correlational studies are helpful in		.	
	Survey Mo	ethod		
	•Research method that relies onquestionnaires, interviews.		_; uses surveys,	
	•Usually a very		method	
	Populati	ion		
	•Thefrom study	n which a sa	mple is drawn for a	
	Random Sample			
	•A sample that represents a		<u></u> :	
	—Each member of the population has an _			
	—If a sample is not random it is said to be		·	
	Developmental Psychologists			
	•Psychologists who study how			
	Longitudina	l Study		
	•Developmental study where researchers			
	difficult to conduct		expensive and	
	Cross-Section	· ·		
	•Developmental study where researchers	simultaneous	sly study	
	•Cheaper, easier thanbe due to factors other than			
	•Play "Water, Water Everywhere" (12:20) Segment #2 from Scientific American Frontiers: Video Collection for Introductory Psychology (2 nd edition)			
	-			

Hype	othesis
•Aof tl	he outcome of the experiment or research
Opera	ational Definitions
A specification of the exact pro	cedures used to make a
In evaluating others' research, tesearchers'	first determine if you agree with the
-	endent and Dependent Variables pendent Variable
The experimental variable which	ch
The "	"
The ma	
	nge the
Den	endent Variable
•	ch is affected by the
The "	
The of the	
The variable being	
_	n Assignment, and Confounding Variable
•	erimental Group
	who are exposed to the
Also called the	
	and compared to the control group
	Control Group
	of the
Also called the	
Confo	ounding Variables
Variables, other than the independent of the	endent variable, which could inadvertently
	in order to draw a true, relationship in the experiment.
Many confounding variables ca	n be eliminated through

Name:		Table:	Period:			
Lecture No	tes Thinking About Psychology: Module	2: Resear	ch Strategies Page 5			
	Random Ass	Random Assignment				
	•Assigning participants to the	O				
	•Each participant should have anassigned into					
		Experiments				
	•Video "Experimental Design" (7:24) Se Human Experience	egment #3 fro				
	Experiments: Control for Oth	Experiments: Control for Other Confounding Variables				
	Environmental Differences					
	•Any differences in the experiment's conditionsbetween					
	•Differences include,, etc.	.,,	, distractions,			
	•Ideally, there should be a the two groups.		between			
	Confounding	Variables:				
	Expectation Effects	1 4 41				
	•Any changes in an experiment's results	due to the _				
	Blind procedure					
	•An experimental procedure where the re	esearch parti	cipantsof the experiment			
	•Sometimes called					
	Double Blind Procedure					
	•An experimental procedure where					
	to the	expected ou	tcome of the experiment			
	Placebo					
	•Aof a drug or active agent		instead			
	•Given to the					

Placebo Effect

•Video "The Placebo Effect: Mind-Body Relationship" (9:14) Segment #3 from The Mind: Psychology Teaching Modules (2 nd edition)
Experiments: Data Analysis
Statistically Significant
•Possibility that the differences in results between the experimental and control groups could have occurred by chance
•Must be at least the differences between the groups is due to the
Experiments: Replication
Replication • Parasting the experiment to determine
•Repeating the experiment to determine
•If so, the research is
Ethics: Human Research (Four Basic Principles)
1. Informed Consent
•Participants must be informed,, about:
— the of the research, and
— any
— Participants must have the right or
at any time.
2. Right to be Protected from Harm and Discomfort
•Studies involving may be conducted only under certain circumstances, and only with the
of the participants.
3. Right of Confidentiality
•Individual data about research participants
4. Right to Debriefing
•Participants have a right to receive
•This is extremely important if the research

Name:		Table:	Period:
Lecture No	otes Thinking About Psychology: Mod	lule 2: Resear	rch Strategies Page 7
	Ethics: Anima Reasons for Animal Research	al Research	
	•Interest in animal behavior as		
	Data from animal studiesEasier to do some type of studies (get		
		/ 	
	Reasons for Animal Research		
	•Easier toanimals as compared to humans		with
	animals as compared to humans		
	•Procedures that are not ethical to per	form on humans	S
	Care of Animals used in Research		
	•Animals used in research must:		
	—Have		
	—Have appropriate		
	—Be		

The End