## Comparison of Research Methods AP Psychology

Method	Description	Uses and Advantages	Potential Limitations
Experimental	Manipulation of variables to	-Demonstrates causal	-Generalizability outside the
	assess cause and effect	relationships	laboratory
		-Replicability: study can be	-Some complex phenomena
		repeated to see if the same	cannot be readily tested
		findings emerge	using pure experimental
		-Maximizes control over	methods
		relevant variables	
Correlational	Examines the extent to	-Reveals relations among	-Cannot establish causation
	which two or more variables	variables as they exist	
	are related and can be used	outside the laboratory	
	to predict one another	-Allows quantification of	
		relations among variables	
		(correlational coefficients	
	X 1 1 1 1 1 C	and scatterplots)	C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Case Study#	In-depth observation of a	-Describes psychological	-Generalizability to the
	small number of cases	processes as they occur in individual cases	population
			-Replicability: study may
		-Allows study of complex	not be repeatable -Researcher bias
		phenomena not easily	-Researcher bias -Cannot establish causation
		reproduced experimentally -Provides data that can be	-Camot establish causation
		useful in framing	
		hypotheses	
	In-depth observation of a	-Reveals phenomena as they	-Generalizability to the
	phenomenon as it occurs in	exist outside the laboratory	population
	nature	-Allows study of complex	-Observer effects: the
Naturalistic	Huture	phenomena not easily	presence of an observer may
Observation#		reproduced experimentally	alter the behavior of the
		- Provides data that can be	participants
		useful in framing	-Researcher bias
		hypotheses	-Cannot establish causation
	Asking people questions	-Reveals attitudes or self-	-Self-report bias: people
Survey#	about their attitudes,	reported behaviors of a	may not be able to report
	behavior, etc.	large sample of individuals	honestly or accurately
		-Allows quantification of	- Cannot establish causation
		attitudes or behaviors	

# = "Descriptive" Studies (none of these can establish causation!!)