

Describing research methods



Useful word combinations

We may carry out a procedure or an experiment or a pilot study. [preliminary study] We use or, more formally, employ a method or a technique or an approach or an instrument or a device. [an object or method used for a special purpose] You can also use or employ any particular type of research methodology.

Apparatus [equipment for a lab experiment] is assembled and checked. Apparatus is an uncountable noun but you can talk about a piece of apparatus.



Types of research method

research method	what the researcher does	limitation of method
experimental study	manipulates a variable [anything that can vary] under highly controlled conditions to see if this produces [causes] any changes in a second [dependent] variable	done in the highly controlled setting of the laboratory – these conditions are artificial ² and may not reflect what happens in the infinitely more complex real world; other researchers often try to replicate ³ successful experiments
correlational study	attempts to determine the relationship between two or more variables, using mathematical techniques for summarising data	only shows that two variables are related in a systematic way, but does not prove or disprove ⁴ that the relationship is a cause-and-effect relationship
naturalistic (empirical) observation (also known as field study)	observes and records some behaviour or phenomenon ⁵ , often over a prolonged period, in its natural setting without interfering with ⁶ the subjects or phenomena in any way	can be very time-consuming as researcher may have to wait for some time to observe the behaviour or phenomenon of interest; difficult to observe behaviour without disrupting ⁷ it
survey	makes inferences from ⁸ data collected via interviews or questionnaires	intentional deception, poor memory, or misunderstanding of the question can all contribute to inaccuracies in the data
case study	keeps in-depth ⁹ descriptive records, as an outside observer , of an individual or group	often involves only a single individual as the subject of the study and this person may not be representative ¹⁰ of the general group or population

makes changes to 2 not natural 3 do in exactly the same way 4 show something is not true 5 something that exists and can be



Remember that phenomenon is the singular and phenomeno is the plural. The same applies to criterionicriteria. [a standard by which you judge, decide about or deal with something] See also Unit 31.

seen, felt, tasted, etc. 6 altering 7 making it change 8 comes to conclusions on the basis of ⁹ detailed ¹⁰ typical

Exercises

41.1	Complete the sentence	s in these two	texts with	words from	the opposite page.
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			ther cold fusion	مقمما فالمستناد	_	und	er
labora	tory, is po	ssible. In the	past, some beil	eved that e	S S	ould in fact ca	use heavy
la		С	using pallad	ium and piati	num electrodes c	carefully conti	asc neavy alled
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experi	nents, rese	earchers bell	eved they could	mant used Ir	the v	arising	mom the
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fact tr	eoreticall	y impossible.					
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metho	d. Howev	er, maiviau	ai siddles ili re	al Situations Loomore In	short, both app	roaches have t	heir
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