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what is a dependent variable in science thoughtco

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updated on january 12 2019 a dependent variable is the variable that is tested and measured in a scientific experiment it is sometimes called the responding variable the dependent variable gets its name from the fact that it depends on the independent variable

responding variable definition types examples study com

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the responding variable or dependent variable is what the scientist measures as a result of the test variable it is the effect of the cause and effect relationships being studied

dependent variable definition and examples

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the dependent variable is the variable that you study and measure in response to changes in the independent variable in other words it depends on the independent variable other names for the dependent variable are the responding variable or measured variable dependent variable examples

what is a responding variable in science jamie foster science

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a responding variable also known as a dependent variable is a key concept in scientific experiments and research it refers to the factor or phenomenon that is being measured or observed in response to changes in other variables in simpler terms it is the outcome or result that is being studied or analyzed

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response variable also known as the dependent or outcome variable its value is predicted or its variation is explained by the explanatory variable in an experimental study this is the outcome that is measured following manipulation of the explanatory variable example panda fertility treatments

independent and dependent variables which is which

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the dependent variable sometimes known as the responding variable is what is being studied and measured in the experiment it s what changes as a result of the changes to the independent variable an example of a dependent variable is how tall you are at different ages

explanatory response variables definition examples

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response variable sometimes referred to as a dependent variable or an outcome variable the value of this variable responds to changes in the explanatory variable in an experimental study we re typically interested in how the values of a response variable change as a result of the values of an explanatory variable being changed

explanatory and response variables definitions examples

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a response variable is the expected effect and it responds to explanatory variables you expect changes in the response variable to happen only after changes in an explanatory variable there s a causal relationship between the variables that may be indirect or direct

independent vs dependent variables definition examples

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a dependent variable is the variable that changes as a result of the independent variable manipulation it is the outcome you're interested in measuring and it depends on your independent variable in statistics dependent variables are also called response variables they respond to a change in another variable

definitions of control constant independent and dependent

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a dependent variable sometimes called a responding variable is what the experimenter observes to find the effect of systematically varying the independent variable

controlled experiments article khan academy

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a controlled experiment is a scientific test done under controlled conditions meaning that just one or a few factors are changed at a time while all others are kept constant we'll look closely at controlled experiments in the next section

independent and dependent variable examples thoughtco

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the dependent variable is the condition that you measure in an experiment you are assessing how it responds to a change in the independent variable so you can think of it as depending on the independent variable sometimes the dependent variable is called the responding variable independent and dependent variable examples

what are independent and dependent variables scribbr

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you can think of independent and dependent variables in terms of cause and effect an independent variable is the variable you think is the cause while a dependent variable is the effect in an experiment you manipulate the independent variable and measure the outcome in the dependent variable

independent and dependent variables examples

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the dependent variable is the factor that changes in response to the independent variable it is the variable that you measure in an experiment the dependent variable may be called the responding variable examples of independent and dependent variables here are several examples of independent and dependent variables in experiments

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updated on january 23 2020 a dependent variable is the variable being tested in a scientific experiment the dependent variable is dependent on the independent variable as the experimenter changes the independent variable the change in the dependent variable is observed and recorded

dependent and independent variables wikipedia

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depending on the context a dependent variable is sometimes called a response variable regressand criterion predicted variable measured variable explained variable experimental variable responding variable outcome variable output variable target or label

variables in research definition types examples

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the dependent variable in a research study or experiment is what is being measured in the study or experiment the independent variable in a research study or experiment is what the

what are dependent independent controlled variables

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a dependent variable is the measurement that changes in response to what you changed in the experiment this variable is dependent on other variables hence the name for example in the plant growth experiment the dependent variable would be plant growth you could measure this by measuring how much the plant grows every two days

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indeed editorial team updated june 24 2022 dependent variables are an important part of conducting research studies researchers use the dependent variable to study a hypothesis and further their research learning how to identify and choose a dependent variable can help you set up effective studies

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