

ACT Science

Standards for Score Ranges 13-15	Standards for Score Ranges 16-19	Standards for Score Ranges 20-23	Standards for Score Ranges 24-27	Standards for Score Ranges 28-32	Standards for Score Ranges 33-36
Select one piece of data from a simple data presentation (e.g., a simple food web diagram)	Select two or more pieces of data from a simple data presentation	Select data from a complex data presentation (e.g., a phase diagram)	Compare or combine data from two or more simple data presentations (e.g., categorize data from a table using a scale from another table)	Compare or combine data from a simple data presentation with data from a complex data presentation	Compare or combine data from two or more complex data presentations
Identify basic features of a table, graph, or diagram (e.g., units of measurement)	Understand basic scientific terminology	Compare or combine data from a simple data presentation (e.g., order or sum data from a table)	Compare or combine data from a complex data presentation	Determine and/or use a complex (e.g., nonlinear) mathematical relationship that exists between data	Analyze presented information when given new, complex information
Find basic information in text that describes a simple data presentation	Find basic information in text that describes a complex data presentation	Translate information into a table, graph, or diagram	Determine how the values of variables change as the value of another variable changes in a complex data presentation	Perform a complex interpolation or complex extrapolation using data in a table or graph	Understand precision and accuracy issues
Find basic information in text that describes a simple experiment	Determine how the values of variables change as the value of another variable changes in a simple data presentation	Perform a simple interpolation or simple extrapolation using data in a table or graph	Determine and/or use a simple (e.g., linear) mathematical relationship that exists between data	Determine the hypothesis for an experiment	Predict the effects of modifying the design or methods of an experiment
Understand the tools and functions of tools used in a simple experiment	Understand the methods used in a simple experiment	Understand a simple experimental design	Analyze presented information when given new, simple information	Determine an alternate method for testing a hypothesis	Determine which additional trial or experiment could be performed to enhance or evaluate experimental results
Find basic information in a model (conceptual)	Understand the tools and functions of tools used in a complex experiment	Understand the methods used in a complex experiment	Understand a complex experimental design	Determine which complex hypothesis, prediction, or conclusion is, or is not, consistent with a data presentation, model, or piece of information in text	Determine which complex hypothesis, prediction, or conclusion is, or is not, consistent with two or more data presentations, models, and/or pieces of information in text
	Find basic information in text that describes a complex experiment	Identify a control in an experiment	Predict the results of an additional trial or measurement in an experiment	Determine whether presented information, or new information, supports or weakens a model, and why	Determine whether presented information, or new information, supports or contradicts a complex hypothesis or conclusion, and why
	Identify implications in a model	Identify similarities and differences between experiments	Determine the experimental conditions that would produce specified results	Use new information to make a prediction based on a model	
	Determine which models present certain basic information	Determine which experiments utilized a given tool, method, or aspect of design	Determine which simple hypothesis, prediction, or conclusion is, or is not, consistent with two or more data presentations, models, and/or pieces of information in text	Compare or combine data from a simple data presentation with data from a complex data presentation	
		Determine which simple hypothesis, prediction, or conclusion is, or is not, consistent with a data presentation, model, or piece of information in text	Determine whether presented information, or new information, supports or contradicts a simple hypothesis or conclusion, and why	Determine and/or use a complex (e.g., nonlinear) mathematical relationship that exists between data	
		Identify key assumptions in a model	Identify the strengths and weaknesses of models	Perform a complex interpolation or complex extrapolation using data in a table or graph	
		Determine which models imply certain information	Determine which models are supported or weakened by new information	Determine the hypothesis for an experiment	
		Identify similarities and differences between models	Determine which experimental results or models support or contradict a hypothesis, prediction, or conclusion	Determine an alternate method for testing a hypothesis	
				Determine which complex hypothesis, prediction, or conclusion is, or is not, consistent with a data presentation, model, or piece of information in text	
				Determine whether presented information, or new information, supports or weakens a model, and why	
				Use new information to make a prediction based on a model	

ACT Science Benchmark 23

Your ACT Science Score _____