ACT SCIENCE CCR STANDARDS

Table 1. Science College and Career Readiness Standards for Score Ranges 13–15	Is this covered in my curriculum?
Select one piece of data from a simple data presentation (e.g., a simple food web diagram)	
Identify basic features of a table, graph, or diagram (e.g., units of measurement)	
Find basic information in text that describes a simple data presentation	
Find basic information in text that describes a simple experiment	
Understand the tools and functions of tools used in a simple experiment	
Find basic information in a model (conceptual)	

Table 2. Science College and Career Readiness Standards for Score Ranges 16–19	Is this covered in my curriculum?
Select two or more pieces of data from a simple data presentation	
Understand basic scientific terminology	
Find basic information in text that describes a complex data presentation	
Determine how the values of variables change as the value of another variable changes in a simple data presentation	
Understand the methods used in a simple experiment	
Understand the tools and functions of tools used in a complex experiment	

Find basic information in text that describes a complex experiment	
Identify implications in a mode	
Determine which models present certain basic information	

Table 3. Science College and Career Readiness Standards for Score Ranges 20–23	Is this covered in my curriculum?
Select data from a complex data presentation (e.g., a phase diagram)	
Compare or combine data from a simple data presentation (e.g., order or sum data from a table)	
Translate information into a table, graph, or diagram	
Perform a simple interpolation or simple extrapolation using data in a table or graph	
Understand a simple experimental design	
Understand the methods used in a complex experiment	
Identify a control in an experiment	
Identify similarities and differences between experiments	
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 a data presentation, model, or piece of information in text	
Identify key assumptions in a model	

Determine which models imply certain information	
Identify similarities and differences between models	

Table 4. Science College and Career Readiness Standards for Score Ranges 24–27	Is this covered in my curriculum?
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 complex data presentation	
Determine how the values of variables change as the value of another variable changes in a complex data presentation	
Determine and/or use a simple (e.g., linear) mathematical relationship that exists between data	
Analyze presented information when given new, simple information	
Understand a complex experimental design	
Predict the results of an additional trial or measurement in an experiment	
Determine the experimental conditions that would produce specified results	
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	
Determine whether presented information, or new information, supports or contradicts a simple hypothesis or conclusion, and why	

Identify the strengths and weaknesses of models	
Determine which models are supported or weakened by new information	
Determine which experimental results or models support or contradict a hypothesis, prediction, or conclusion	

Table 5. Science College and Career Readiness Standards for Score Ranges 28–32	Is this covered in my curriculum?
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 complex data presentation	
Determine how the values of variables change as the value of another variable changes in a complex data presentation	
Determine and/or use a simple (e.g., linear) mathematical relationship that exists between data	
Analyze presented information when given new, simple information	
Understand a complex experimental design	
Predict the results of an additional trial or measurement in an experiment	
Determine the experimental conditions that would produce specified results	
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	

Determine whether presented information, or new information, supports or contradicts a simple hypothesis or conclusion, and why	
Identify the strengths and weaknesses of models	
Determine which models are supported or weakened by new information	
Determine which experimental results or models support or contradict a hypothesis, prediction, or conclusion	

Table 6. Science College and Career Readiness Standards for Score Ranges 33–36	Is this covered in my curriculum?
Compare or combine data from two or more complex data presentations	
Analyze presented information when given new, complex information	
Understand precision and accuracy issues	
Predict the effects of modifying the design or methods of an experiment	
Determine which additional trial or experiment could be performed to enhance or evaluate experimental results	
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	
Determine whether presented information, or new information, supports or contradicts a complex hypothesis or conclusion, and why	