	College Readiness Standards for Science Reasoning								
	Interpretation of Data	Scientific Investigation	Evaluation of Models, Inferences, and Experim'l Results						
13-15	IOD 201 Select one piece of data from a simple data presentation (e.g., a simple food web diagram) IOD 202 Identify basic features of a table, graph, or diagram (e.g., units of measurement) IOD 203 Find basic information in text that describes a simple data presentation	SIN 201 Find basic information in text that describes a simple experiment SIN 202 Understand the tools and functions of tools used in a simple experiment	EMI 201 Find basic information in a model (conceptual)						
16-19	IOD 301 Select two or more pieces of data from a simple data presentation IOD 302 Understand basic scientific terminology IOD 303 Find basic information in text that describes a complex data presentation IOD 304 Determine how the values of variables change as the value of another variable changes in a simple data presentation	SIN 301 Understand the methods used in a simple experiment SIN 302 Understand the tools and functions of tools used in a complex experiment SIN 303 Find basic information in text that describes a complex experiment	EMI 301 Identify implications in a model EMI 302 Determine which models present certain basic information						
20-23	IOD 401 Select data from a complex data presentation (e.g., a phase diagram) IOD 402 Compare or combine data from a simple data presentation (e.g., order or sum data from a table) IOD 403 Translate information into a table, graph, or diagram IOD 404 Perform a simple interpolation or simple extrapolation using data in a table or graph	SIN 401 Understand a simple experimental design SIN 402 Understand the methods used in a complex experiment SIN 403 Identify a control in an experiment Identify similarities and differences between experiments SIN 405 Determine which experiments utilized a given tool, method, or aspect of design	EMI 401 Determine which simple hypothesis, prediction, or conclusion is, or is not, consistent with a data presentation, model, or piece of information in text Identify assumptions in a model EMI 402 Determine which models imply certain information Identify similarities and differences between models						
24-27	IOD 501 Compare or combine data from two or more simple data presentations (e.g., categorize data from a table using a scale from another table) IOD 502 Compare or combine data from a complex data presentation IOD 503 Determine how the value of one variable changes as the value of another variable changes in a complex data presentation IOD 504 Determine and/or use a simple (e.g., linear) mathematical relationship that exists between data IOD 505 Analyze presented information when given new, simple information	SIN 501 Understand a complex experimental design SIN 502 Predict the results of an additional trial or measurement in an experiment SIN 503 Determine the experimental conditions that would produce specified results	EMI 501 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 EMI 502 Determine whether presented information, or new information, supports or contradicts a simple hypothesis or conclusion, and why EMI 503 Identify strengths and weaknesses of models EMI 504 Determine which models are supported or weakened by new information EMI 505 Determine which experimental results or models support or contradict a hypothesis, prediction, or conclusion						

28-32	IOD 601 IOD 602 IOD 603	Compare or combine data from a simple data presentation with data from a complex data presentation Identify and/or use a complex (e.g., nonlinear) mathematical relationship between data Perform a complex interpolation or complex extrapolation using data in a table or graph	SIN 601 SIN 602	Determine the hypothesis for an experiment Determine an alternate method for testing a hypothesis	EMI 601 EMI 602 EMI 603	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
33-36	IOD 701	Compare or combine data from two or more complex data presentations Analyze presented information when given new, complex information	SIN 701 SIN 702 SIN 703	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	EMI 701	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