

Appendix C

Science Reporting Categories

The following table illustrates which Science indicators support each reporting category.



Reporting Category 1: Analyzing scientific and technical arguments, evidence and text-based information		30%
SP.1.a	Understand and explain a textual scientific presentations	
SP.1.b	Determine the meaning of symbols, terms and phrases as they are used in scientific presentations	
SP.3.a	Cite specific textual evidence to support a finding or conclusion	
SP.5.a	Reconcile multiple findings, conclusions or theories.	
SP.6.c	Express scientific information or findings verbally	
Reporting Category 2: Applying scientific processes and procedural concepts		40%
SP.2.a	Identify possible sources of error and alter the design of an investigation to ameliorate that error	
SP.2.b	Identify and refine hypotheses for scientific investigations	
SP.2.c	Identify the strength and weaknesses of one or more scientific investigation (i.e. experimental or observational) designs	
SP.2.d	Design a scientific investigation	
SP.2.e	Identify and interpret independent and dependent variables in scientific investigations	
SP.3.b	Reason from data or evidence to a conclusion	
SP.3.c	Make a prediction based upon data or evidence	
SP.4.a	Evaluate whether a conclusion or theory is supported or challenged by particular data or evidence	
SP.7.a	Understand and apply scientific models, theories and processes	
Reporting Category 3: Reasoning quantitatively and interpreting data in scientific contexts		30%
SP.1.c	Understand and explain a non-textual scientific presentations	
SP.3.d	Using sampling techniques to answer scientific questions	
SP.6.a	Express scientific information or findings visually	
SP.6.b	Express scientific information or findings numerically	
SP.7.b	Apply formulas from scientific theories	
SP.8.a	Describe a data set statistically	
SP.8.b	Use counting and permutations to solve scientific problems	
SP.8.c	Determine the probability of events	