Indiana Integrated STEM

Grade 8

Communication and Collaboration CC	**1** Collect and document evidence to share information with others in multiple media forms. 8.CC.1
	2 Communicate the solution(s) of a problem/analysis either orally, visually, or in writing, including process steps, findings, or conclusions. 8.CC.2
	3 Identify, implement, and assign roles and responsibilities to collaborate in various group settings (i.e., online, onsite and/or hybrid) and situations. 8.CC.3
	4 Communicate specific constraints and criteria established for an investigation. 8.CC.4
	5 Evaluate competing solutions or arguments in a systematic way based on qualitative and/or quantitative evidence. 8.CC.5
Data Analysis and Measurement DM	**1** Use multiple systems of measurement (i.e., standard and metric) and data sets (e.g., plots, tables, graphs, charts) defined in grade level content standards to analyze real-world scenarios and the mathematical relationships represented by the data. 8.DM.1
	2 Construct visual representations (e.g., bar graphs, charts) to determine patterns or statistical analysis (e.g., mean, median) defined in grade level content standards. 8.DM.2
	3 Use approximations and evaluate reasonableness of observations, results, and solutions throughout processes. 8.DM.3
	4 Choose data sets and analysis methods to support the inquiry process. 8.DM.4
Inquiry-Based Approaches and Problem Solving IPS	**1** Conduct or extend an original investigation, analyze results, iterate, and revise to improve the design. 8.IPS.1
	2 Determine one or more viable solutions using data and information to resolve a scenario given criteria and constraints. 8.IPS.2
	3 Integrate processes and methodologies across disciplines based on content specific standards to incorporate multiple sources of evidence to support defining a solution. 8.IPS.3

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Applications and Modeling AM	1	**Interpret and evaluate relationships among sets of data (e.g., distance-time graph).** 8.AM.1
	2	**Use coordinate planes or number lines to examine information and represent solutions.** 8.AM.2
	3	**Use models to compare and contrast different systems and explain the factors that influence them.** 8.AM.3
	4	**Use and revise models to describe, test, and predict phenomena or solutions.** 8.AM.4
Information and Digital Literacy IDL	1	**Identify and evaluate the impact of technology when selecting tools to solve a problem in order to determine the most effective solution.** 8.IDL.1
	2	**Review and compile information from multiple sources to solve a problem.** 8.IDL.2
	3	**Describe how solutions or technologies are adapted to meet the changing needs and wants of individuals or communities.** 8.IDL.3