Indiana Integrated STEM

High School

Communication and Collaboration CC	1	**Communicate evidence, investigations, analyses, and the solution(s) of a problem in multiple media forms appropriate for the audience.** HS.CC.1
	2	**Implement roles and responsibilities to collaborate, contribute, and/or lead within and across various group settings (i.e., online, onsite and/or hybrid) and situations.** HS.CC.2
	3	**Evaluate competing solutions or arguments in a systematic way based on qualitative and/or quantitative evidence.** HS.CC.3
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 course-level content standards to analyze real-world scenarios and the mathematical relationships represented by the data.** HS.DM.1
	2	**Construct visual representations or conduct statistical analyses defined in course-level content standards.** HS.DM.2
	3	**Use approximations and evaluate reasonableness of observations, results, and solutions throughout processes.** HS.DM.3
Inquiry-Based Approaches and Problem Solving IPS	1	**Conduct or extend an investigation, analyze results, iterate, and revise to improve the design.** HS.IPS.1
	2	**Determine one or more viable solutions using data and information to resolve a scenario given criteria and constraints.** HS.IPS.2
	3	**Integrate processes and methodologies across disciplines to incorporate multiple sources of evidence, including data generated by the student, to support defining a solution.** HS.IPS.3
	4	**Evaluate data analysis to determine alignment to the construct, validity and/or reliability concerns.** HS.IPS.4
	5	**Design and conduct surveys or experiments minimizing bias and defining limitations of the data set used for analysis (e.g., measurement error, sample selection).** HS.IPS.5
Applications and Modeling AM	1	**Interpret and evaluate relationships among data sets.** HS.AM.1

	2 **Create advanced models (e.g., mathematical models, computer simulations) to represent and explain natural and designed systems, defined in course-level content standards.** HS.AM.2
	3 **Use evidence-based models to describe relationships between systems or between components of a single system.** HS.AM.3
	4 **Demonstrate the use of computational, graphical, virtual, mathematical, and/or physical modeling to identify conflicting considerations before the entire system or solution is developed.** HS.AM.4
Information and Digital Literacy IDL	1 **Analyze tradeoffs of using a variety of tools to solve a given problem including technology.** HS.IDL.1
	2 **Review and compile information from multiple sources, including sources generated by the student, to solve a problem.** HS.IDL.2
	3 **Evaluate the potential impact (short and/or long-term) of different technology solutions on society and the environment.** HS.IDL.3