Indiana Integrated STEM

Grade 4

Communication and Collaboration CC

1. Collect and document evidence to share information with others in charts, tables, presentations or text. 4.CC.1
2. Communicate the solution(s) of a problem/analysis either orally, visually, or in writing, including process steps, findings or conclusions. 4.CC.2
3. Identify and implement roles and responsibilities to collaborate in various group settings (i.e., online, onsite and/or hybrid) and situations. 4.CC.3
4. Communicate specific constraints and criteria established for an investigation. 4.CC.4
5. Critique or support methods, investigations or arguments using evidence-based reasoning. 4.CC.5

Data Analysis and Measurement DM

1. Determine appropriate measurement tools to perform measurements, calculations, and conversions (e.g., fractions, decimals, pounds, perimeter, area, kilograms to grams) defined in grade level content standards to analyze real-world scenarios. 4.DM.1
2. Construct visual representations defined in grade level content standards (e.g., bar graphs, charts, line plots, frequency tables) to determine patterns, using digital tools when possible and feasible. 4.DM.2
3. Evaluate reasonableness of observations, results, and solutions throughout processes. 4.DM.3
4. Choose data sets and analysis methods to support the inquiry process. 4.DM.4

Inquiry-Based Approaches and Problem Solving IPS

1. Plan and conduct an investigation to answer a specific question or solve a specific problem. 4.IPS.1
2. Decompose a complex problem into smaller steps or sequences to evaluate (e.g., what should be done first, second). 4.IPS.2
3. Determine one or more viable solutions using data and information to resolve a scenario given criteria and constraints. 4.IPS.3

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1. pply symbols and relationships (e.g., place value, equations, operations) to epresent physical or conceptual objects (e.g., letters, numbers, or displays of

	color may represent objects). 4.AM.1
	2 Create a model showing a subsystem as part of a larger system. 4.AM.2
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. 4.IDL.1
	2 Review and compile information from multiple sources to solve a problem. 4.IDL.2
	3 Describe how solutions or technologies are adapted to meet the changing needs and wants of individuals or communities. 4.IDL.3