

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

Applications and Modeling AM

- 1 Apply symbols and relationships (e.g., place value, equations, operations) to represent 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