

# Grade 3

## Communication and Collaboration **CC**

- 1 Collect and document evidence to share information with others in charts, tables, presentations, or text. 3.CC.1**
  - a Share evidence in the form of charts, tables, presentations, or text. 3.CC.1A

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- 2 Communicate the solution(s) of a problem/analysis either orally, visually, or in writing, including process steps, findings, or conclusions. 3.CC.2**
  - a Communicate the solution to a problem by identifying steps in a process or a key finding. 3.CC.2A

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- 3 Identify and implement roles and responsibilities to collaborate in various group settings (i.e., online, onsite and/or hybrid) and situations. 3.CC.3**
  - a Carry out the responsibilities for a role while working in a group setting. 3.CC.3A

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- 4 Communicate specific constraints and criteria established for an investigation. 3.CC.4**
  - a Communicate a constraint (e.g., "We can only use the tape and string provided.") or criteria (e.g., "Our crane has to lift 5 paperclips.") for an investigation. 3.CC.4A

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- 5 Critique or support methods, investigations, or arguments using evidence-based reasoning. 3.CC.5**
  - a Use evidence-based reasoning to determine which methods are best suited for the intended outcome. 3.CC.5A

## Data Analysis and Measurement **DM**

- 1 Determine appropriate measurement tools to perform measurements and calculations (e.g., fractions, pounds, temperature, perimeter, area) defined in grade level content standards to analyze real-world scenarios. 3.DM.1**
  - a Use appropriate measurement tools to record measurements (e.g., fractions, pounds, temperature, perimeter, area) defined in grade level content standards in real-world scenarios. 3.DM.1A

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- 2 Construct visual representations defined in grade level content standards (e.g., bar graphs, pictographs) to determine patterns, using digital tools when possible and feasible. 3.DM.2**
  - a Determine patterns in visual representations defined in grade level content standards (e.g., bar graphs, charts), using digital tools when possible and feasible. 3.DM.2A

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**3 Evaluate reasonableness of observations, results, and solutions throughout processes.** 3.DM.3

- a Categorize observations, results, or solutions throughout processes as reasonable or unreasonable. 3.DM.3A

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**4 Choose data sets and analysis methods to support the inquiry process.** 3.DM.4

- a Describe how data sets support the inquiry process. 3.DM.4A

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**Inquiry-Based Approaches and Problem Solving** IPS

**1 Plan and conduct an investigation to answer a specific question or solve a specific problem.** 3.IPS.1

- a Identify a question to answer or problem to solve; plan and conduct an investigation to answer the question or solve the problem. 3.IPS.1A

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**2 Decompose a complex problem into smaller steps or sequences to evaluate (e.g., what should be done first, second).** 3.IPS.2

- a Decompose a problem and identify the order of steps from the beginning to the end. 3.IPS.2A

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**3 Determine one or more viable solutions using data and information to resolve a scenario given criteria and constraints.** 3.IPS.3

- a Find one or more viable solutions using data or information to resolve a given scenario working within specific criteria and constraints. 3.IPS.3A

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**Applications and Modeling** AM

**1 Apply symbols and relationships (e.g., equations) to represent physical or conceptual objects (e.g., letters, numbers, or displays of color may represent objects).** 3.AM.1

- a Identify symbols and relationships (e.g., operations or equations) that represent physical or simple conceptual objects (e.g., letters, numbers, or displays of color may represent objects). 3.AM.1A

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**2 Create a model showing a subsystem as part of a larger system.** 3.AM.2

- a Identify a subsystem of a larger system using a simple model (e.g., the roots of a tree, wheels on a bike, students in a classroom). 3.AM.2A

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**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.** 3.IDL.1

- a Identify the effects of technology when choosing tools for problem-solving and finding the best solution. 3.IDL.1A

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**2 Review and compile information from multiple sources to solve a problem.** 3.IDL.2

- a Gather and use information from different sources to solve problems. 3.IDL.2A

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**3 Describe how solutions or technologies are adapted to meet the changing needs and wants of individuals or communities. 3.IDL.3**

- a Explain how changing technology can better serve the needs and wants of people or communities. 3.IDL.3A