**Matter**

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| **Big Idea** | **Emerging** | **Developing** | **Proficient** | **Extending** |
| Humans interact everyday with matter through familiar materials | Explores the characteristics of familiar materials | Describes the characteristics of familiar materials | Poses questions, measures and experiments to determine properties of familiar materials | Justifies the selection of familiar materials for a given task based on its characteristics |
| Matter is useful because of its properties | Lists basic properties of matter (wet, dry, hard, soft) | Measures and describes basic properties of solids, liquids, and gases and their uses | Makes predictions about properties of matter (e.g. will float), examines uses of local products related to their properties | Selects materials for a given task based on properties |
| All matter is made of particles | Recognizes that everything is made of small pieces called particles | Poses questions about the make-up of objects based on observations of the natural word that can be investigated, explores Indigenous perspectives | Selects strategies for conducting an inquiry to answer questions about matter, collects data and categorizes in drawings and tables | Infers scientific understandings – proposes possible solutions to problems in the natural world |
| Matter has mass, takes up space, and can change phase | Identifies and categorizes phases of matter | Describes changes in phases of matter using a variety of methods and technologies | Analyzes the role of temperature and other catalysts related to phase changes in matter | Makes connections between phase changes and environmental issues, proposes solutions |