

NGSS Correlations

Crystal Growing Dolomite RM-350/390

Elementary

2-PS1-1

2-PS1-2

Students can use the Crystal Growing Dolomite to investigate and analyze data obtained from testing different materials to determine which materials have the properties that are best suited for an intended purpose.

2-ESS1-1

Students can use the Crystal Growing Dolomite to investigate and make observations to construct an evidence-based account that Earth events can occur quickly or slowly.

4-ESS2-1

Students can use the Crystal Growing Dolomite in an investigation to make observations and/or measurements to provide evidence of the effects of weathering or the rate of erosion by water, ice, wind, or vegetation.

2-PS1-4

5-PS1-1

Students can use the Crystal Growing Dolomite in an investigation to develop a model to describe that matter is made of particles too small to be seen.

Middle School

MS-PS1-2

Students can use the Crystal Growing Dolomite to analyze and interpret data on the properties of substances before and after the substances interact to determine if a chemical reaction has occurred.

MS-ESS2-1

Students can use the Crystal Growing Dolomite in an investigation to develop a model to describe the cycling of Earth's materials and the flow of energy that drives this process.

High School

HS-PS1-5

Students can use the Crystal Growing Dolomite to investigate and apply scientific principles with evidence to provide an explanation about the effects of changing the temperature or concentration of particles.

HS-ESS2-1

Students can use the Crystal Growing Dolomite in an investigation to develop a model to illustrate how Earth's internal and surface processes operate at different spatial and temporal scales to form continental and ocean-floor features.

5-PS1-3

Students can use the Crystal Growing Dolomite to make observations and measurements to identify materials based on their properties.

Suggested Science Idea(s)**DCI/MS-PS1.A**

Each pure substance has characteristic physical and chemical properties that can be used to identify it.

2-PS1-1**2-PS1-2****2-PS1-4****5-PS1-1****5-PS1-3****MS-PS1-2****HS-PS1-5**

Matter can be described and classified by its observable properties. The various kits offer students an opportunity to see crystal formation and observe how the chemical composition affects the shape and size of those crystals.

2-ESS1-1**MS-ESS2-1****HS-ESS2-1**

Students can use the Crystal Growing Dolomite to observe the crystallization process in a short amount of time, modeling what can take the Earth millions of years.

4-ESS2-1

Students can use the Crystal Growing Dolomite to build crystals and then use a variety of methods to witness erosion of the crystal formations.

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