



LET'S ROCK!

TRAINER'S GUIDE

Let's Rock

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NAME THAT MINERAL!

Objective: Children will explore some of the physical properties of various minerals that can be identified by their physical properties.

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APEX Science Curriculum Overview



Standards and Objectives: Lets Rock!

	National Science Education Standards	Objectives
Name That Mineral!	<p><i>Abilities necessary to do scientific inquiry</i></p> <ul style="list-style-type: none"> • Use tools and observations to gather data. • Use data to formulate explanations. <p><i>Properties of objects and materials</i></p> <ul style="list-style-type: none"> • Minerals have observable and measurable properties. <p><i>Light, heat, electricity, and magnetism</i></p> <ul style="list-style-type: none"> • Magnetic objects attract and repel each other and certain kinds of other materials. <p><i>Properties of Earth materials</i></p> <ul style="list-style-type: none"> • Minerals are Earth materials. • Minerals have physical properties such as color and texture. 	Children will explore some of the physical properties of various minerals that can be identified by their physical properties.
Multicolored Rock Cycle	<p><i>Abilities necessary to do scientific inquiry</i></p> <ul style="list-style-type: none"> • Use observations from a model of the rock cycle to gather data. • Use data to formulate explanations. <p><i>Properties of objects and materials</i></p> <ul style="list-style-type: none"> • Minerals have observable properties. <p><i>Properties of Earth materials</i></p> <ul style="list-style-type: none"> • Minerals are Earth materials which have physical properties. 	Children will use crayon shavings to model how sedimentary, metamorphic and igneous rocks are formed.
Salty Crystals	<p><i>Abilities necessary to do scientific inquiry</i></p> <ul style="list-style-type: none"> • Use tools and observations to gather data. • Use data to formulate explanations. <p><i>Properties of objects and materials</i></p> <ul style="list-style-type: none"> • Minerals have observable and measurable properties. <p><i>Properties of Earth materials</i></p> <ul style="list-style-type: none"> • Minerals are Earth materials. • Minerals have physical and chemical properties that influence their physical appearance. 	Children will explore how minerals form crystals of various shapes.
Pearly Whites	<p><i>Abilities necessary to do scientific inquiry</i></p> <ul style="list-style-type: none"> • Plan and conduct an experiment. • Use observations to gather data. • Use data to formulate explanations. <p><i>Properties of objects and materials</i></p> <ul style="list-style-type: none"> • Minerals have observable and measurable properties. <p><i>Properties of Earth materials</i></p> <ul style="list-style-type: none"> • Minerals are Earth materials which have physical and chemical properties that make them useful. <p><i>Abilities of technological design</i></p> <ul style="list-style-type: none"> • Engage in technological problem solving through first hand experience using given materials. <p><i>Understanding about science and technology</i></p> <ul style="list-style-type: none"> • Design a solution to a problem understanding the relationship of science and technology. 	Children will identify commonly used minerals while developing their own toothpaste formula.