



THE SUN, OUR STAR

TRAINER'S GUIDE

The Sun, Our Star

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Objective: Children will use different colors of felt to explore the absorption and reflection of radiant energy from the Sun.

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APEX Science Curriculum Overview

Standards and Objectives: The Sun, Our Star

	National Science Education Standards	Objectives
Hot Colors	<p><i>Abilities necessary to do scientific inquiry</i></p> <ul style="list-style-type: none"> • Use a thermometer to gather data. • Use data to formulate explanations. <p><i>Properties of objects and materials</i></p> <ul style="list-style-type: none"> • Objects have observable properties which can be measured using tools. <p><i>Light, heat, electricity, and magnetism</i></p> <ul style="list-style-type: none"> • Heat can be produced in many ways. <p><i>Objects in the sky</i></p> <ul style="list-style-type: none"> • The Sun has observable and measurable properties. • The Sun provides light and heat. 	Children will use different colors of felt to explore the absorption and reflection of radiant energy from the Sun.
UV Detectives	<p><i>Abilities necessary to do scientific inquiry</i></p> <ul style="list-style-type: none"> • Use a thermometer to gather data. • Use data to formulate explanations. <p><i>Properties of objects and materials</i></p> <ul style="list-style-type: none"> • Objects have observable properties that can be measured using tools. <p><i>Objects in the sky</i></p> <ul style="list-style-type: none"> • The Sun has observable and measurable properties. • The Sun provides light and heat. 	Children will explore the effects of ultraviolet radiation using ultraviolet light detecting beads
Sunrise Sunset	<p><i>Abilities necessary to do scientific inquiry</i></p> <ul style="list-style-type: none"> • 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"> • Objects have observable properties. <p><i>Objects in the sky</i></p> <ul style="list-style-type: none"> • The Sun has observable properties. • The Sun provides light. 	Children will model how light scatters in the sky at different times of the day to understand why the sky displays different colors at sunrise, midday and sunset.
Whats Cooking?	<p><i>Abilities necessary to do scientific inquiry</i></p> <ul style="list-style-type: none"> • Use a thermometer to gather data. • Use data to formulate explanations. <p><i>Properties of objects and materials</i></p> <ul style="list-style-type: none"> • Objects have observable properties which can be measured using tools. <p><i>Light, heat, electricity, and magnetism</i></p> <ul style="list-style-type: none"> • Heat can be produced in many ways. <p><i>Objects in the sky</i></p> <ul style="list-style-type: none"> • The Sun has observable and measurable properties. • The Sun provides light and heat. 	Children will build and use a solar oven to explore the uses of solar energy.