

8-2011

Changes in the Earth and Sky: Shadows, Day, and Night [pre-kindergarten]

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UNDERSTANDING BY DESIGN

Unit Cover Page

Unit Title: Changes in the Earth and Sky: Shadows, Day, and Night

Grade Level: Pre-Kindergarten

Subject/Topic Area: Science

Designed By: Beth Morrow and Anne Peppers

Time Frame: 1 week

School District: East Central Independent School District

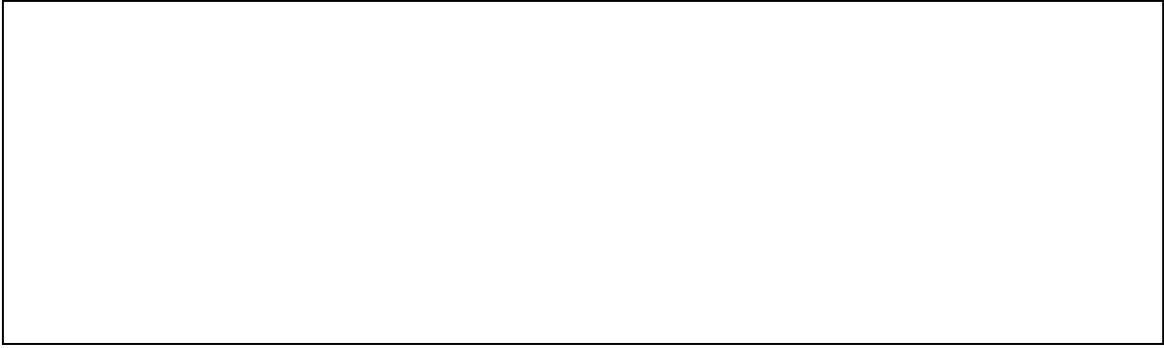
School: East Central Development Center

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Brief Summary of Unit:

This unit is based on the Texas Pre-Kindergarten Guideline, “Child identifies, observes, and discusses objects in the sky.” At the conclusion of this unit, students will know that natural changes occur in the sky, that changes in the sky affect objects on the ground, and differences between the day and night skies and be able to observe and discuss characteristics of clouds and make representations, ask questions and/or make comments about the sun, stars, and moon, and investigate what happens to things exposed to the sun



Stage 1 – Desired Results

<p>Established Goals (Texas Pre-Kindergarten Guidelines)</p> <p>VI.C.2. Child identifies, observes, and discusses objects in the sky.</p>	Transfer	
	<p><i>Students will independently use their learning to...</i> Correctly identify and/or name items seen in the night sky and day sky and discuss some effects of the sun</p>	
	Meaning	
	<p>Understandings <i>Students will understand that....</i></p> <ul style="list-style-type: none"> - Changes in the sky affect our environment and our lives - We can observe and describe changes in the sky 	<p>Essential Questions</p> <ol style="list-style-type: none"> 1. What changes occur in the sky during the day? 2. What changes occur in the sky during the night? 3. What are the effects of changes or objects in the sky?
Acquisition		
<p>Knowledge <i>Students will know...</i></p> <ul style="list-style-type: none"> - Natural changes occur in the sky - Changes in the sky affect objects on the ground - Differences between the day and night skies 	<p>Skills <i>Students will be able to...</i></p> <ul style="list-style-type: none"> - observe and discuss characteristics of clouds and make representations - ask questions and/or make comments about the sun, stars, and moon - investigate what happens to things exposed to the sun 	

Stage 2 – Evidence

CODE (M or T)	Evaluative Criteria (for rubric)	
<p>M/T</p> <p>M/T</p>	<ul style="list-style-type: none"> - correct placement of objects - appropriate day/night addition - labeled correctly 	<p>Performance Task(s) <i>Students will demonstrate meaning-making and transfer by...</i></p> <ol style="list-style-type: none"> 1. When shown 4 pictures of objects in the sky (sun, stars, moon, cloud), student will tell whether it is seen in the day sky or the night sky. Student will be asked to tell one thing that can happen to an item when it is exposed to the sun. (Pacing Guide assessment) 2. Students will be given a piece of blue construction paper, a piece of black construction paper, and die-cuts of a sun, cloud, star, and moon and be asked to place each object on the colored paper on which it belongs, then add one more object they can see in the day and night sky. Students will then label each sky by copying the words ‘day’ and ‘night’ onto the correct color.

Stage 3 – Learning Plan

	<p>more object they can see in the day and night sky. Students will then label each sky by copying the words ‘day’ and ‘night’ onto the correct color.</p>	
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Pacing Guide assessment grading guidelines (performance task 1):

+ 5 correct responses (4 sky objects with correct answers and one result of sun exposure)

√ 3-4 correct responses

- 0-2 correct responses

	-	√	+
correct placement of objects	Places 0 objects correctly	Places 1-2 objects correctly	Places 3-4 objects correctly
appropriate day/night addition	Does not add an appropriate day or night object	Adds one appropriate addition to either day or night	Adds correct addition to both day and night
labeled correctly	Does not label or labels both day and night incorrectly	Correctly labels either day or night	Correctly labels both day and night