

**Grade 1 Science**  
**Canterbury Public Schools**

<b>Subject</b>	Science
<b>Grade Level</b>	Grade 1
<b>Modules 2 and 3</b>	<p>Module 2 Learning Through Science and Story - The Sun, Moon, and Stars</p> <p>Module 3 Researching To Build Knowledge and Teach Others- Birds Amazing Bodies</p>
<b>Module Goals</b>	<p>Module 2 Overview: Students build literacy skills while learning about observable patterns in the sky. Through reading, writing, observation, discussion, and story, students investigate the sun, moon, and stars and learn how these celestial objects affect life on Earth.</p> <p>In unit 1; students respond to texts through role-play and written response. In Unit 2; students engage in a close read-aloud of What Makes Day and Night by Franklyn Branley and a focused read-aloud of Does the Sun Sleep? Students track their observations of the celestial bodies. In Unit 3; a focused read-aloud to understand the content of the position of the bodies during different times of the day. Students use their growing understanding of descriptive language, author’s craft, and patterns of the sun and moon to compose a narrative poem titled, “ What the Sun Sees.”</p> <p>Goals for this module: Observe and describe patterns of the sun, moon, and stars Develop scientific skills Use evidence from observations and texts to answer questions Build understanding of how the sun provides light and warmth Create informational and narrative writing connected to science Communicate scientific ideas through speaking, drawing, and writing.</p> <p>Module 3 Overview: Students investigate how birds use their body parts and behaviors to survive. Through reading, research, observation, writing, and discussion, students learn about bird adaptations and communicate their learning to others. In this module , students listen to the texts Just Ducks by Nicola Davies and Birds by Penelope Arlon and Tory Gordon-Harris as they answer the unit guiding questions “What makes a bird a bird?” Students build background knowledge about birds through texts, they participate in reading, talking, and representing. In Unit 2, students participate in both whole and small group research to learn more about the form and function of key bird parts: beaks and feathers. Students</p>

	<p>research 2 key anchor texts: Feathers: Not Just For Flying by Melissa Stewart and Beaks! By Sneed B.Collard III. This is guided by: “How do birds use their body parts to survive? In Unit 3 students participate in another research cycle to learn about how a specific bird’s key parts help them to survive.</p> <p>Goals for this module:  Learn how birds’ physical features help them survive  Understand how bird behaviors support survival  Conduce simple research  Gather information from multiple sources  Create informational products to teach others  Develop scientific thinking through observation and evidence</p> <p>Module 3 lays the foundation for work in Module 4- make a meaningful contribution to the community. Teach specific habits of character that will help them make a difference in the world around them.</p>
<b>Pacing (# of weeks)</b>	Module 2 8 - 9 weeks Module 3 8 - 9 weeks
<b>Standards</b>	Module 2 NGSS 1-ESS1-1 Use observations of the sun, moon and stars to describe patterns that can be predicted 1-ESS1-2 Make observations at different times of year to relate the amount of daylight to the time of year  Module 3 NGSS 1-LS1-2 use materials to design a solution to a human problem by mimicking how plants and or animals use their external parts to help them survive, grow, and meet their needs. LS-1.A Structure and Function-- Animals have body parts they help them survive LS1.B Growth and Development of Organisms -- Adult animals and their offspring are similar by not identical
<b>Content/Conceptual Knowledge (know)</b>	Module 2 The sun, moon, and stars can be observed in predictable patterns The sun, appears in the daytime sky The moon can be seen during both day and night Stars are visible at night Daylight changes throughout the year

	<p>Scientists make observations to learn about the world</p> <p>Module 3  Birds have specialized body parts  Beaks help birds gather food  Wings help birds move  Feathers help birds fly and stay warm  Feet and claws help birds survive in different habitats  Bird behaviors help meet survival needs  Scientists use research and observation to learn about animals</p>
<p><b>Skills (be able to do)</b></p>	<p>Module 2  Observe and record information  Ask scientific questions  Compare observations across time  Use evidence to support explanations  Read informational texts to gather facts  Participate in collaborative discussions  Create drawings, charts, and written explanations  Present findings to others</p> <p>Module 3  Observe bird characteristics  Compare different bird species  Conduct simple research  Take notes from texts and media  Sort information into categories  Explain how structures support survival  Create informational writing  Present research findings</p>
<p><b>Essential Questions</b></p>	<p>Module 2  What can we learn by observing the sky?  How do the sun, moon, and stars appear to change?  What patterns can we observe in nature?  How do scientists learn about the world around them?</p> <p>Module 3  How do birds' bodies help them survive?  Why do different birds have different features?  How do scientists learn about animals?  How can we teach others about what we learn?</p>

<p><b>Enduring Understandings</b></p>	<p>Module 2          Scientists use observations to identify patterns          The sun, moon, and stars follow predictable patterns          Evidence helps us answer questions about the natural world          Careful observations leads to new discoveries</p> <p>Module 3          Animals have body structures that help them meet their needs          Structure and function are connected          Research helps us build knowledge          Scientists use evidence to explain observations          Information can be shared to educate others</p>
<p><b>Vocabulary</b></p>	<p>Module 2          Sun, moon, stars, sky, observe, pattern, daylight, nighttime, season, sunrise, sunset, scientists, evidence, investigate, describe, compare, explain, record, information, research,</p> <p>Module 3          Bird, beak, feather, wing, claw, talon, habitat, adaptations, survive, predator, prey, structure, function, behavior, research, evidence, information, explain, compare, classify, observation</p>
<p><b>Common Learning Experiences</b></p>	<p>Module 2          Keep a sky observation journal          Track sunrise and sunset times          Observe moon phases through photographs          Compare daytime and nighttime skies          Read informational texts about space          Create models of day and night          Conduct simple investigations          Participate in science talks</p> <p>Module 3          Observe local birds          Compare bird photographs and videos          Investigate different types of beaks          Match bird structure to its function          Read informational texts about birds          Conduct research using books and digital resources          Create bird adaptation charts          Design tools inspired by bird body parts          Write informational books          Present findings to classmates and families</p>

<p><b>Assessments</b></p>	<p>Module 2  Observation journals, science notebooks, discussion protocols, exit tickets, informational writing piece, final performance task presentation  Performance task- Students create a Sky Observational journal or informational product describing observable patterns of the sun, moon, and stars and explain what they learned from their observations.</p> <p>Module 3  Research note catchers  Observational journals  Science discussions  Vocabulary activities  Sorting and classifying tasks  Teacher conferencing  Bird research project  Informational writing piece  Adaptation explanation task  Oral presentation teaching others about bird structures and survival  Students create Expert Bird Riddle cards and Expert Bird Scientific Drawing Cards for a riddle matching game.</p>
<p><b>Resources</b></p>	<p>Module 2  Why the Sun and the Moon Live in the Sky; Does the Sun Sleep?: Noticing Sun, Moon, and Star Patterns; What Makes Day and Night; Sun and Moon; Papa, Please Get the Moon for Me; What the Sun Sees, What the Moon Sees; Kitten’s First Full Moon; Summer Sun Risin’; “Elvin, the Boy Who Loved the Sky”; “What We See: The Sun, Moon, and Stars”; “Where are They?: The Sun, Moon, and Stars”  National Geographic Kids  Mystery Science  PebbleGo Space Resources  NASA Kids</p> <p>Module 3  Notebooks  Trade books  Cornell Lab of Ornithology resources  National Geographic Kids- Birds  PebbleGo Animals  Audubon for Kids  Bird Observational Journals  Nature videos and virtual field experiences</p>