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The Beak Book A Peek at Beaks Bird Beak Book Beaks, Bones & Bird Songs Busy Beaks The Beak Book Unbeatable Beaks The Beaks of Birds Beauty and the Beak Beaks! Weird Bird Beaks Bird's Beaks and Bills Weird Bird Beaks The Beak of the Finch Bird Beaks, Bird Song, Bird Brains and Bird Tales Out of the Beaks of Birds Whose Beak is This? Using a Beak Zoo and Wild Animal Dentistry Structure and Mechanical Behavior of Bird Beaks Dusty (Rescue Dogs #2) How Birds Work Weird Bird Beaks Morphogenesis of Bird Beaks Beaks and Feathers Different Types of Beaks The Beak of the Finch Bird Beaks The Last Stargazers Unbeatable Beaks Bird Beaks and Bills The Galapagos Islands The Best Beak in Boonaroo Bay Smithsonian Kids Birds Karl's New Beak Beaks Birds from Head to Tail Bird Beaks/WW/K Birds and Beaks A Chicken Followed Me Home!

Beauty and the Beak is a nonfiction picture book about Beauty, the wild bald eagle that made world news when she was illegally shot, rescued, and received a pioneering, 3D-printed prosthetic beak. Beauty and the Beak follows Beauty close up from the moment she uses her baby beak to emerge from her egg, through her hunt when she uses her powerful adult beak to feed herself, to the day her beak is shot off, leaving her helpless. This brave and uplifting story continues through her rescue, into the months of engineering her 3D-printed prosthetic beak and intense hours of her beak surgery, to the moment she takes the first drink of water by herself with her new beak. Beauty and the Beak captures the spirit and courage of this amazing bird and America's national symbol--whose species was nearly wiped out by human activity, only to be restored and thriving because of environmental conservation and human compassion. This book will resonate with those who have their own stories of other animals endangered

or in need, and humans, from young children to military veterans, in need of prosthetic limbs, who are being given new lives with state-of-the-art devices. The book includes expanded information about bald eagles as a top predator species, their near extinction in most of the U.S., their successful reintroduction back into the wild, and efforts to conserve this critical raptor species today. How can a toucan fly with such a large, cumbersome beak? A toucan's beak is actually light as a feather due to its honeycomb construction. And not only is it beautiful, but it's an extremely useful tool in foraging for food. Find out more fascinating facts in this remarkably illustrated study of bird beaks. Learn about several different birds, their habitats, and how their beaks are uniquely styled to help them survive. Outstanding 3-D cut-paper illustrations by Robin Brickman create amazingly realistic tableaux of birds in their natural environments with their beaks in action. Back matter includes a comprehensive quiz, a bibliography, and a list of related Web sites. Come along on a tour of the wonderful world of birds and their beaks. This book is the story of a child and two grown-up friends on a jaunt across their yard, in a park, past a pond, and through the pages of a photo album. Like them, you'll find you can figure out what birds eat by the shape of their bills--and why some have beaks like straws, pouches, or even daggers. Also like them, you'll have all kinds of questions about amazing birds--from house finches to hummingbirds to great blue herons--that use their own built-in tools for eating. Rounding out the story are five kid-friendly activities and background information parents and teachers can use. Have you ever wondered why some birds have such weird beaks? Have you wondered how they can eat or fly with such oddly shaped beaks? *Weird Bird Beaks* provides some insight. Book and lesson also available at Levels N and R. This guided tour through bird behavior by the author of *Latin for Bird Lovers* “ reveals the strange and wondrous adaptations birds rely on to get by ” (National Audubon Society). When we see a bird flying from branch to branch happily chirping, it is easy to imagine they lead a simple life of freedom, flight, and feathers. What we don ’ t see is the arduous, life-threatening challenges they face at every moment. In *Beaks, Bones, and Bird Songs*, ornithologist Roger

J. Lederer guides you through the myriad, often nearly miraculous, things that birds do every day just to stay alive. The goldfinch withstands extreme weather changes by doubling the density of its plumage in winter. Urban birds navigate traffic through a keen understanding of posted speed limits. In engaging and accessible prose, Lederer shares how and why birds use their sensory abilities to see ultraviolet, find food without seeing it, fly thousands of miles without stopping, change their songs in noisy cities, navigate by smell, and much more. “ A trove of information for true bird nerds. ”

—Bird Watcher ' s Digest

Karl is an Abyssinian ground hornbill with a special challenge. His lower bill had broken off and made eating difficult. Karl did a great job of adapting and finding new ways to eat, but he wasn't getting all the food he needed. His zookeepers at the National Zoo and friends at the Smithsonian Institute wanted to help. Could an old bird skeleton and a 3-D printer give Karl a new beak? Karl's new adventure was about to begin! The structure and mechanical behavior of Toco toucan (*Ramphastos toco*) and Wreathed hornbill (*Rhyticeros undulatus*) beaks were examined. The structure of Toco toucan and Wreathed hornbill beak was found to be a sandwich composite with an exterior of keratin and a fibrous bony network of closed cells made of trabeculae. A distinctive feature of the hornbill beak is its casque formed from cornified keratin layers. The casque is believed to have an acoustic function due to the complex internal structure. The toucan and hornbill beaks have a hollow region that extends from proximal to mid-section. The rhamphotheca is comprised of superposed polygonal scales (45 μ m diameter and 1 μ m thickness) fixed by some organic adhesive. The branched intermediate filaments embedded in keratin matrix were discovered by transmission electron microscopy (TEM). The diameter of intermediate filaments was \sim 10 nm. The orientation of intermediate filaments was examined with TEM tomography and the branched filaments were homogeneously distributed. The closed-cell foam is comprised of the fibrous structure of bony struts with an edge connectivity of three or four and the cells are sealed by the thin membranes. The volumetric structure of bird beak foam was reproduced by

computed tomography for finite element modeling. The mechanical behavior of bird beaks was evaluated by tensile and compression testing. Micro and nanoindentation hardness measurements were used to corroborate these values. The mechanical response of toucan rhamphotheca exhibits isotropy whereas hornbill rhamphotheca may behave anisotropically in tension. The Young's moduli of toucan and hornbill rhamphotheca were found to be ~ 1.0 GPa. The Young's modulus of rhamphotheca at high humidity condition dropped by an order of magnitude. The rhamphotheca exhibits a strain-rate sensitivity with a transition from slippage of the scales due to release of the organic glue, at a low strain rate, to fracture of the scales at a higher strain rate. The compressive strength of beak foam is dependent on the density. The higher apparent density of hornbill foam provides a four-fold higher strength than toucan foam. The mechanical behavior of beak skulls were modeled by the Gibson-Ashby constitutive equation. The compressive response of the beak revealed that there is a synergistic effect between foam and shell evidenced by the separate response of shell, foam, and foam + shell. The sandwich design of bird beaks were evaluated by the Karam-Gibson and Dawson-Gibson models. The models proved that the design of bird beaks was optimized for effectively achieving high resistance to buckling when they are subjected to bending rather than uniaxial loads. The synergistic interaction between foam and shell is also successfully confirmed by a finite element analysis (LS-DYNA). The foam stabilizes the deformation and prevents local buckling of the keratin shell by providing an internal support which increases its buckling load under compressive loading. The bending behavior of bird beak in finite element analysis was successfully compared with experimental results. The volumetric structure of bird beak foam was reconstructed in 3D by a visualization technique and this rendering was successfully applied to finite element calculations which predict compressive strength in agreement with experimental results. Rhyming verses describe many types of bird beaks. Includes factual information about thirty-nine birds found in the Northern Hemisphere. Penguins, Ravens, Emus, and Hummingbirds are only a few of the birds featured in this

children's book. The adventures of Question Mark the Penguin have been enjoyed for years but only now published. You can learn a lot about birds from this book too and the illustrations are bright and fun. Every beak is special in the way it helps a bird gather food, build a home, and more. Striking three-dimensional art displays the unique features of each beak and brings the birds to life. Readers can test their knowledge by taking the "beakability" quiz at the end of the book. Full color. (L) A bird's beak has a special job. Read all about different types of birds and how their beaks help them. Have you ever wondered why some birds have such weird beaks? Have you wondered how they can eat or fly with such oddly shaped beaks? Weird Bird Beaks provides insight as to why some birds have the weird beaks they do. Photographs support the text. Book and lesson also available at Levels H and N. PULITZER PRIZE WINNER • A dramatic story of groundbreaking scientific research of Darwin's discovery of evolution that "spark[s] not just the intellect, but the imagination" (Washington Post Book World). "Admirable and much-needed.... Weiner's triumph is to reveal how evolution and science work, and to let them speak clearly for themselves." —The New York Times Book Review On a desert island in the heart of the Galapagos archipelago, where Darwin received his first inklings of the theory of evolution, two scientists, Peter and Rosemary Grant, have spent twenty years proving that Darwin did not know the strength of his own theory. For among the finches of Daphne Major, natural selection is neither rare nor slow: it is taking place by the hour, and we can watch. In this remarkable story, Jonathan Weiner follows these scientists as they watch Darwin's finches and come up with a new understanding of life itself. The Beak of the Finch is an elegantly written and compelling masterpiece of theory and explication in the tradition of Stephen Jay Gould. Describes how bird's beaks differ and how they can use them to find food by cracking things, poking, scooping and fishing, as well as using them to feed their chicks. Includes notes for teachers. Suggested level: primary. On most days Boonaroo Bay is a calm and quiet place. But this was not always so . . . One day the birds were quarrelling noisily. Which of them had the best beak?

Find out how the wise old pelican restored the peace and quiet of Boonaroo Bay. Winner of the Pulitzer Prize Winner of the Los Angeles Times Book Prize On a desert island in the heart of the Galapagos archipelago, where Darwin received his first inklings of the theory of evolution, two scientists, Peter and Rosemary Grant, have spent twenty years proving that Darwin did not know the strength of his own theory. For among the finches of Daphne Major, natural selection is neither rare nor slow: it is taking place by the hour, and we can watch. In this dramatic story of groundbreaking scientific research, Jonathan Weiner follows these scientists as they watch Darwin's finches and come up with a new understanding of life itself. The Beak of the Finch is an elegantly written and compelling masterpiece of theory and explication in the tradition of Stephen Jay Gould. With a new preface.

"Children guess the identity of iconic New Zealand birds from the pictures of their beaks, while finding out some facts about the birds along the way. This approach introduces an important science concept about adaptation : birds' beaks are a very obvious adaptation to the kind of food they eat" --Publisher's website.

The story of the people who see beyond the stars—an astronomy book for adults still spellbound by the night sky. Humans from the earliest civilizations through today have craned their necks each night, using the stars to orient themselves in the large, strange world around them. Stargazing is a pursuit that continues to fascinate us: from Copernicus to Carl Sagan, astronomers throughout history have spent their lives trying to answer the biggest questions in the universe. Now, award-winning astronomer Emily Levesque shares the stories of modern-day stargazers in this new nonfiction release, the people willing to adventure across high mountaintops and to some of the most remote corners of the planet, all in the name of science. From the lonely quiet of midnight stargazing to tall tales of wild bears loose in the observatory, *The Last Stargazers* is a love letter to astronomy and an affirmation of the crucial role that humans can and must play in the future of scientific discovery. In this sweeping work of narrative science, Levesque shows how astronomers in this scrappy and evolving field are going beyond the machines to infuse creativity and passion into the stars and space and

inspires us all to peer skyward in pursuit of the universe's secrets. Enjoy the world of colorful birds and learn the correct use of action verbs as the birds chirp, cheep and squawk throughout various stories. Designed for parents, teachers, grandparents and caregivers to use with preschool children as well as those in early elementary grades. Five varieties of birds are used in the stories; each story focuses on the use of a certain verb. The verb tenses are printed in the color of the bird. Information about each of the five birds is included along with pictures and internet links to bird songs. Have you ever wondered why some birds have such weird beaks? Have you wondered how they can eat or fly with such oddly shaped beaks? *Weird Bird Beaks* provides insight as to why some birds have the weird beaks they do. Photographs support the text. Book and lesson also available at levels H and R. Have you ever seen a bird using a jackhammer? What about one scooping up a meal with a net? Of course birds can't really use tools, at least not the way humans do. But birds have surprisingly helpful tools with them at all times—their beaks! Guess which birds have beaks resembling commonly used tools in this playful picture book from award-winning author Sara Levine. Delightfully detailed collage artwork by Kate Slater helps this book take flight! Rhyming verses describe many types of bird beaks. Includes factual information about thirty-nine birds found in the Northern Hemisphere. From Caldecott Honor illustrator Robin Page comes this striking picture book exploring the fascinating and surprising ways different kinds of birds use their unique beaks. Birds around the world have so many amazing kinds of beaks! There are short beaks and long beaks, straight beaks and curved beaks, flat beaks and even spoon-shaped beaks. But what do all of these beaks do? Discover how beaks of different shapes and sizes are adapted to help birds sip nectar, make nests, battle for mates, and more! Why did the chicken cross the road? To follow you home! Learn all about a not-so-basic bird in this delightful nonfiction picture book. What's that? A chicken followed you home? Now what do you do? Celebrated author-illustrator Robin Page leads a step-by-step, question-and-answer-style journey through the world of chickens. Along the way you'll explore

different breeds, discover different types of coops, and learn everything there is to know about chicken reproduction and hatching. Gorgeous, playful, and filled with facts, this engaging nonfiction picture book shines new light on a very familiar fowl! Does your little one love birds? Then come touch, read, and discover all about our feathered friends and their lives with your toddler and Smithsonian Kids Embossed textures and bright, detailed photographs from Smithsonian are sure to engage, entertain, and educate your curious Preschooler or Kindergartner. Special embossed textures help engage in both verbal and tactile learning skills. Everyone will enjoy learning the history about trains and railways in *Trains Then and Now*. Embossed pictures allow your toddler to touch and feel as they learn Fun facts and pictures from Smithsonian Kids are sure to educate and entertain even the littlest bird lover

First Discovery books engage your toddlers verbal and tactile learning skills with fun facts for you to read paired with textured embossing over the images. Check out other fascinating subjects to explore in our Smithsonian Kids First Discovery Books series from Cottage Door Press

Zoo and Wild Animal Dentistry ist das erste umfassende Referenzwerk, das sich mit oralen Krankheitsbildern und dentalen Therapien bei exotischen Wildtieren und Exoten in Gefangenschaft beschäftigt. Die Herausgeber sind anerkannte Experten des Fachgebiets und beschreiben die Zahnpflege bei einer Vielzahl von Spezies. Der Fokus liegt dabei auf der Zahngesundheit. Das Praktikerbuch zur Behandlung von Exoten bietet eine Fülle von Fotos und Illustrationen, die Krankheitsbilder klar erläutern und Verfahren vorstellen. Die Publikation greift auf die langjährige Erfahrung der Herausgeber mit exotischen Tieren zurück und ist eine zuverlässige Referenz mit Informationen zur Geschichte der veterinärmedizinischen Zahnheilkunde, zur Zahnentwicklung, zu Zahntherapeutika aus der Praxis und Beschreibungen des Zahnapparats von mehr als 300 Spezies. *Zoo and Wild Animal Dentistry* behandelt eine Vielzahl von Zoo- und Wildtieren, darunter Katzen, Bären, Primaten, Hunde, Waschbären, Wiesel, Hyänen, Beuteltiere, Pflanzenfresser, zahnarme Säugetiere, Meeressäuger, Vögel, Reptilien u.v.m. Dieses wichtige Referenzwerk -

beschreibt umfassend eine Fülle oraler Krankheitsbilder und dentaler Therapien bei exotischen Wildtieren und Wildtieren in Gefangenschaft - unterstreicht insbesondere die Bedeutung der Zahngesundheit für die allgemeine Tiergesundheit. - informiert über die jüngsten Fortschritte und Errungenschaften in dem Fachgebiet. - enthält einen wegweisenden Fundus an Ideen für die Zahnpflege exotischer Wildtiere. Das Buch richtet sich an Wildtierpfleger und Veterinärmediziner, Fachveterinärreferent für Zahnheilkunde, Veterinärtechniker und Studenten der Veterinärmedizin. Zoo and Wild Animal Dentistry ist ein Praktikerbuch mit allem Wissenswerten rund um die Zahnpflege bei einer Vielzahl von Tierrassen, denen immer wieder zu wenig Beachtung geschenkt wird. Part bird book, part guessing game — what a perfect pair! In this interactive book, kids get to test their bird knowledge, one body part at a time. “ What bird has eyes like this? ” asks a spread showing a close-up illustration of the body part without revealing the rest of the bird ’ s body. “ A bald eagle! ” answers the following spread, which features an illustration of the whole bird in its habitat, along with intriguing information about its unique body part and what makes it special. Eight birds in all are featured, along with another eight on an additional spread at the back of the book. From a great horned owl ’ s head to a peacock ’ s tail, it ’ s fun guessing birds by their body parts! An artfully designed, highly detailed guide to the inner workings of birds—what they ’ re made up of inside and out, and why From Caldecott Honor illustrator Robin Page comes this striking nonfiction STEM picture book exploring the fascinating and surprising ways different kinds of birds use their unique beaks. Birds around the world have so many amazing kinds of beaks! There are short beaks and long beaks, straight beaks and curved beaks, flat beaks and even spoon-shaped beaks. But what do all of these beaks do? Discover how beaks of different shapes and sizes are adapted to help birds sip nectar, make nests, battle for mates, and more! When Dusty, starving and sick, is picked up on the side of the highway after losing his pack, he's lucky to be alive. The tiny Chihuahua is small enough to fit in two hands and needs special care to be nursed back to health before he can be adopted out to a

forever family. Dusty recovers at the Sterling Center, where they train Search and Rescue dogs. Though the Sterlings don't think a dog as small as Dusty can do the tireless work of a SAR dog, an undeterred Dusty shows them that heart and determination matter most. Still, when a massive earthquake hits and lives are at risk, even Dusty has to wonder...does he have what it takes to get the job done? "How does a bird use its beak?" --Page [4] of cover. Spend a day with Australia's most vibrant and unique feathered friends. Full of splashing shorebirds, clattering cockatoos, parading penguins and greedy galahs, Busy Beaks is the perfect introduction to birds of all shapes and sizes.

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