



DALLAS ZOO & CHILDREN'S AQUARIUM AT FAIR PARK 2015-2016 TEKS and Program Resource Guide



Bring your curriculum to life through a wide variety of educational programs offered by the Dallas Zoo and Children's Aquarium at Fair Park! These programs focus on wildlife and the environment. All programs are aligned to the Texas Essential Knowledge and Skills (TEKS). This helpful resource guide highlights how our programs correlate to the TEKS. It also provides educators with specific student objectives and recommended reading* options that can be integrated into classroom instruction. **Please note that book selections are not guaranteed to be used during onsite programming.*

Location: Dallas Zoo

DALLAS ZOO FIELD TRIP (SELF-GUIDED) – All Grade Levels

Bring your students to the Dallas Zoo to visit animals from around the world! A Dallas Zoo field trip is a unique experience for students to enrich their education and indulge their natural interest in wildlife.

Book:

K - 1st:

- *Actual Size* by Steve Jenkins ISBN-13: 978-0-618—375943
- *Goodnight Zoo* by Adam Gamble and Cooper Kelly ISBN-13: 978-1-60219-018-4
- *The Zoo Book* by Jan Pfloog ISBN: 0-307-58118-7
- *The Zoo I drew* by Todd H. Doodler ISBN: 978-0-375-85201-5

2nd - 3rd:

- *Out and about at the zoo* by Kathleen W. Deady ISBN-13: 978-1404800410

4th - 5th:

- *Zoo'd: 6th graders vs. primates! (The underwear dare) (Volume 2)* by The Nardini Sisters ISBN-13: 978-0615730585

6th - 8th:

- *The Zoo Crew* by Carolyn Keene ISBN-13: 978-1416958994
- *A Zoo Story* by Thomas French ISBN-10: 1401310532

Students Will:

- Identify different species of animals and their habitats.
- Observe different characteristics of species that help them survive.

Location: Dallas Zoo

NATURE EXPLORERS - Grades Preschool - Kindergarten

Get an up-close view of the world around you! Join us for an interactive adventure in the Zoo to learn through nature observations. Students will participate in a guided interactive experience, a hands-on activity using scientific tools, and experience a live education animal to truly bring nature to life. *(45 minute program)* Programs are aligned to Texas Preschool Guidelines and Kindergarten TEKS.

TEKS: VI.C.4, VI.B.3, K.2.A, K.2.B, K.2.C, K.2.E, K.3.C, K.4.B

Book:

- *In My Backyard* by Margriet Ruurs ISBN: 0887767753
- *I Took A Walk* by Henry Cole ISBN: 0688151159

Students Will:

- Observe the natural world.
- Utilize tools for observation.
- Ask questions and verbally describe observations.
- Develop a further understanding of and appreciation for the natural world.

Location: Dallas Zoo

HAPPENING HABITATS – Grades 1st – 2nd

Have you ever wondered how animals rely on their habitats to meet their basic needs? Learn what it takes to meet the needs of the magnificent animals that call the Dallas Zoo home. Students will make animal-related discoveries through observations in a guided interactive experience, design their own animal habitats, and experience a live education animal. *(45 minute program)*

TEKS: 1.2.A, 1.2.B, 1.2.E, 1.10.A, 2.2.A, 2.9.A, 2.9.B, 2.9.C

Book:

- *Sand, Leaf, or Coral Reef: A Book About Animal Habitats* by Patricia M. Stockland ISBN: 1404809325
- *Over in the Meadow* by Olive A. Wadsworth and Ezra Jack Keats ISBN: 059044848X

Students Will:

- Use observation skills to complete simple investigations.
- Identify basic needs of animals and identify how habitats help animals meet their basic needs.
- Create their own model animal habitat to meet the needs of an assigned animal.

- Develop a further understanding of and appreciation for the natural world.

Location: Dallas Zoo

ANIMAL ADAPTATIONS - Grades 3rd - 5th

How do animals survive in the environment? They have amazing adaptations! Explore how body coverings, body parts, and behaviors help an animal survive. Compare and contrast physical characteristics of different animals with help from a few live animals in the classroom (*45 minute program*).

TEKS: 3.10.A, 3.10.B, 4.10.A, 4.10.B, 5.10.A, 5.10.B.

Book:

3rd - 5th grade

- *Animals in Motion – How animals swim, jump, slither and glide* by Pamela Hickman and Pat Stephens ISBN: 1-55074-573-5
- *What Big Teeth You Have* by Patricia Lauber ISBN: 0-590-475320

Students Will:

- Learn how adaptations help an animal meet their basic needs and survive.
- Explore the role the environment plays in determining an animal's adaptations.
- Compare, contrast and categorize animal adaptations.
- Develop a further understanding of and appreciation for the natural world.

Location: Dallas Zoo

ANIMAL FOOD CHAINS & WEBS- Grades 3rd – 5th

Bring predators and prey to life! Discover how energy is transferred in food chains and food webs. Through hands-on activities and live animals, students learn how animals are connected and depend upon each other and their environments to survive (*45 minute program*).

TEKS: 3.9.A., 3.9.B., 4.9.A., 4.9.B., 5.9.B., 5.9.C.

Book:

3rd-5th:

- *Can We Be Friends? Natures Partners* by Alexandra Wright ISBN:0-88106-859-4

Students Will:

- Create an interactive food web.
- Learn how energy is transferred in a food web.
- Develop a further understanding of and appreciation for the natural world.

Location: Dallas Zoo

WILD JOBS AT THE ZOO - Grades 3rd - 12th

Find your career at a zoo! Zoos offer many career choices such as zoo keeper, animal curator, accountant, exotic animal veterinarian, and so much more! This interactive program opens students' eyes to the diversity of careers associated with a zoo and how to prepare for them. The Wild Jobs at the Zoo program includes at least one live education animal (*45 minute program*).

TEKS: 3.1.B., 3.3.D., 4.1.B., 4.3.D., 5.1.B., 5.3.D., 6.1.B., 6.3.D., 7.1.B., 7.3.D., 8.1.B., 8.3.D., High School: Biology 3.D., 3.F.; Environmental Systems 3.E., 3.F.

Book:

3rd- 5th:

- *Opportunities in Zoo Careers* by Blythe Camenson ISBN-13: 978-0844223131
- *Working With Wildlife (Science, College and Career Guidance)* by Thane Maynard ISBN-13: 978-0531164150
- *Work It!: Veterinarian at Seaside Zoo* by Alyssa Carver ISBN-13: 978-1598869736

6th - 8th:

- *Opportunities in Zoo Careers* by Blythe Camenson ISBN-13: 978-0844223131
- *Maybe You Belong in a Zoo!: Zoo and Aquarium Careers* by Karen O'Connor ISBN-13: 978-0396080862

Students Will:

- Learn about a variety of careers available at or connected with a zoo.
- Make connections between science concepts and science careers.
- Learn age-appropriate ways to prepare for future careers. Curriculum differentiated by grade level.

Location: Dallas Zoo

GUIDED TOUR: AFRICAN SAFARI - Grades 1st - 12th

What does it take to survive on the savanna? Explore the savanna with an interactive, instructor led tour. Discover the specialized adaptations of the animals who call the Dallas Zoo's Giants of the Savanna home (*60 minute program*).

TEKS: 1.2.A., 1.10.A., 2.2.A., 2.10.A., 3.2.A., 3.10.A., 4.2.A., 4.10.A., 5.3.A., 5.10.A., 6.12.E., 6.12.F., 7.10.A., 7.12.A., 8.11.A., 8.11.B., High School: Biology 7.C., 7.E.; Environmental Systems 7.A., 7.D.

Book:

1st:

- *In the Wild* by Ruth Koeppel ISBN: 978-1-58476-816-6
- *Grasslands – fields of green and gold* by Laura Purdie Salas ISBN-13:978-1-4048-3470-5

2nd - 3rd:

- *Bringing the Rain to Kapiti Plain* by Verna Aardema ISBN: 0-14-054616-2
- *A Savanna Habitat (introducing habitats)* by Bobbie Kalman ISBN-13: 978-0778729808

4th - 5th:

- *African Savanna* by Donald Silver ISBN-13: 978-0070579316

6th - 8th:

- *Savannas and Grasslands (Endangered biomes)* by Donna Latham ISBN-13: 978-1936313501
- *Savannas: Life in the Tropical Grasslands* by Laurie Peach Toupin ISBN-13: 978-0531123867

Students Will:

- Learn about environmental systems, using the African Savanna as a model.
- Learn about adaptive characteristics of Savanna organisms.
- Learn about the importance of biodiversity in an ecosystem.
- Develop a further understanding of and appreciation for nature and wildlife.

Location: Children's Aquarium at Fair Park

CHILDREN'S AQUARIUM AT FAIR PARK FIELD TRIP (SELF GUIDED) – ALL GRADE LEVELS

Find species from all over the world as you travel through different aquatic habitats, without leaving Dallas! Touch a live stingray at the popular Stingray Bay (additional fee for feeding), or stop by the tidal touch pool and meet some tide pool animals up close!

(Reservations cannot be made during the dates of the State Fair of Texas.)

Book:

K - 1st:

- *Song of the Water Boatman* by Joyce Sidman ISBN: 978-0-618-13547-9

2nd - 3rd:

- *Jellies* by Twig C. George ISBN: 978-0-7613-1485-1

4th - 5th:

- *Tracking Trash* by Loree Griffin Burns ISBN: 978-0-547-32860-7

Students Will:

- Students will identify different species of animals and habitats.
- Students will observe different characteristics of species that help them survive.

Location: Children's Aquarium at Fair Park

SEA SQUIRTS: TIDE POOL - Grades Preschool - Kindergarten

Discover life in a tide pool! Feel like you are taking a journey to a tide pool as you participate in this interactive program including live animals. This Preschool through Kindergarten program introduces students to reading and animal natural history. Programs are aligned to Texas Preschool Guidelines and Kindergarten TEKS (30 minute program).

(Reservations cannot be made during the dates of the State Fair of Texas.)

TEKS: VI.C.4, VI.B.3, K.9.B., K.1.C.

Book:

- *At Home in the Tide Pool* by Alexandra Wright ISBN: 0-88106-483-1
- *Hello Ocean* by Pam Munoz Ryan ISBN: 978-0-88106-988-4
- *What's in the Tide Pool* by Anne Hunter ISBN: 978-0-618-01510-8

Students Will:

- Engage in story telling with interactive components.
- Learn animal natural history based on the theme and animals for the day.
- Develop a further understanding of and appreciation for the natural world.
- Develop phonetic awareness of new vocabulary words

Location: Children’s Aquarium at Fair Park

AQUATIC ADAPTATIONS - Grades 1st – 5th

How do aquatic animals survive underwater? They have amazing adaptations! Learn about these special aquatic adaptations in this interactive program that includes live education animals (*45 minute program*).

(Reservations cannot be made during the dates of the State Fair of Texas.)

TEKS: 1.2.A., 1.10.A., 2.2.A., 2.10.A., 3.10.A., 3.10.B., 4.10.A., 4.10.B., 5.10.A., 5.10.B.

Book:

1st:

- *Between the Tides* by Fran Hodgkins ISBN: 978-0-89272-727-8
- *How to Hide an Octopus* by Ruth Heller ISBN: 0-448-4047-8

2nd - 3rd:

- *Hiding in the Ocean – Animal Camouflage* by Patricia Whitehouse ISBN: 140343189-2
- *Down Down Down* by Steve Jenkins ISBN: 978-0-618-96636-3

4th -5th:

- *Survival Secrets of Sea Animals* by Mary Jo Rhodes ISBN: 978-0516243986

Students Will:

- Learn how adaptations help an animal survive.
- Compare and contrast aquatic animal adaptations.
- Explore the role the environment plays determining animal’s adaptations.
- Develop a further understanding of and appreciation for the natural world.

Location: Children's Aquarium at Fair Park

MOLLUSC LAB - Grades 3rd - 8th

Mollusc mania awaits in this hands-on, lab based program! Explore the diversity of the phylum Mollusca, which contains over 85,000 species. This interactive program includes a squid dissection! *(60 minute program)*

(Reservations cannot be made during the dates of the State Fair of Texas.)

TEKS: 3.4.A., 3.10.A., 4.4.A., 4.10.A., 5.4.A., 5.10.A., 6.2.A., 6.4.A., 7.4.A., 7.12.A., 8.4.A., 8.11.D.

Book:

3rd- 5th:

- *About Mollusks: A Guide for Children* by Cathryn Sill Illustrated by John Sill ISBN-13: 978-1561454068
- *Mollusks: Morphology, Behavior, and Ecology* by Averkii Fyodorov ISBN-13: 978-1621009870
- *Incredible Mollusks* by John Townsend ISBN-10: 1410917096

6th - 8th:

- *The Mollusks: A Guide to their Study, Collection, and Preservation* C.F. Sturm (Editor), T.A. Pearce (Editor), et. al ISBN-13: 978-1581129304
- *Snails, Shellfish, and Other Mollusks* by Daniel Gilpin ISBN-13: 978-0756516130

Students Will:

- Learn how to use appropriate lab tools and safety procedures.
- Compare and contrast different types of molluscs through studying both living and non-living specimens.
- Learn marine biology information and develop a further understanding of and appreciation for the natural world.

Location: Children's Aquarium at Fair Park

GUIDED TOUR: AQUATIC HABITATS – 1st - 8th

Saltwater, freshwater, intertidal, and more! In this instructor led program, students visit interactive stations throughout the Aquarium to learn more about the aquatic habitats and unique animals that inhabit each area. While exploring, students will learn the importance of water quality and conservation (45 minute program).

(Reservations cannot be made during the dates of the State Fair of Texas.)

TEKS: 1.1.C., 1.1.OA. 2.1.C., 2.10.A. 3.1.B., 3.10.A., 4.1.B., 4.10.A., 5.1.B., 5.10.A., 6.2.A., 6.12.E.7.10.A., 8.7.C., 8.11.D.

Book:

- 1st:
- *One Small Place by the Sea* by Barbara Brenner ISBN: 978-0-688-17183-4
 - *Ocean Seasons* by Ron Hirschi ISBN: 978-1-934359-16-7
- 2nd - 3rd:
- *I Wonder Why the Sea is Salty* by Anita Ganeri ISBN: 978-0-7534-5611-8
 - *Somewhere in the Ocean* by Jennifer Ward and TJ Marsh ISBN: 0-87358-748-0
- 4th - 5th:
- *Life in a Kelp Forest* by Mary Jo Rhodes and David Hall ISBN: 0-516-25491-X
- 6th - 8th:
- *The Ocean of Life: The Fate of Man and the Sea Unknown Edition* by Callum Roberts ISBN-13: 978-0143123484
 - *Oceans* by Seymour Simon ISBN-13: 978-0060889999

Students Will:

- Learn the characteristics of fresh and salt water ecosystems.
- Learn adaptive characteristics of aquatic life and how animals adapt to their environments.
- Develop a further understanding of and appreciation for the natural world.