

● theNAT Exhibition Links

These permanent exhibitions at theNAT can connect directly to *Animals: Machines in Motion*. They can help spark new questions or allow students to apply new ideas they may have learned.

Fossil Mysteries

Find the ways animals evolved through San Diego's changing climate and landscape millions of years ago. Explore the skeletons and structures of animals that once roamed the region and see how the saber tooth cat opened its jaws, what helped the dinosaurs walk on land, and discover the rainforest creatures that lived in our trees.



Coast to Cactus in Southern California

Travel into the different habitats of San Diego County and see how animals find ways to survive in the desert, mountains, within mudflats, and along the coastline. Find the different adaptations animals need to make it in this place we call home using the engineering nature has given them!

Water: A California Story

All life depends on it—including ours. See how animals and plants have found ways to live in a world where water is constantly being changed by humans, and explore the adaptations these amazing creatures have to endure the varying environment around them.



● NEXT GENERATION SCIENCE STANDARDS*

The following NGSS standards are most closely addressed in the *Animals: Machines in Motion* exhibition itself, though further connections could be made. NGSS standards are also defined in individual items in our multimedia toolkit.

Content Alignment

PS2.A Forces and Motion (Elementary, Middle, and High School) – Though not explicitly discussed, there are numerous examples of Newton's Laws in action throughout the exhibition.

PS3.A Definitions of Energy (Middle and High School) – The exhibition has a gallery focused on how animals insulate themselves or radiate heat into the environment.

PS3.B Conservation of Energy and Energy Transfer (Middle and High School) – Within the exhibition, animals are constantly converting potential to kinetic energy through spring-like structures and materials.

LS1.A Structure and Function (Elementary) – Animals have a variety of structures that help them function in specific ways for survival, all within the laws of physics.

Practice Alignment

Asking questions and defining problems – Within the exhibition text, questions are asked for visitors to think about. These can potentially inspire new questions.

Developing and using models – Examples of technology inspired by nature (biomimicry) are throughout the exhibition. These technologies rely on models of how animals or plants function.

Planning and carrying out investigations – Digital interactives ask visitors to test their ideas and review actual data taken by scientists.

Crosscutting Concepts Alignment

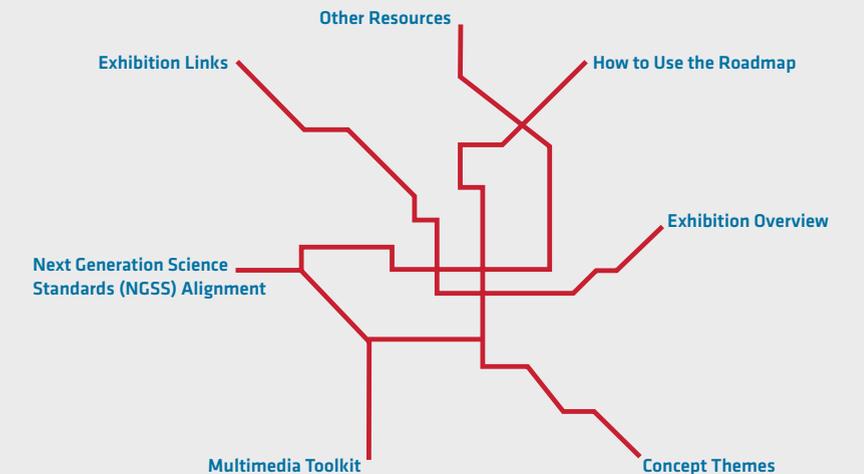
Scale, proportion, and quantity – The scale and size of different animals and plants affect properties such as bone size, heart structure, muscle density, and more necessary for survival.

Structure and function – Different materials are needed for different functions. The material itself and its shape can work together to help organisms survive in harsh conditions.



ANIMALS MACHINES IN MOTION

EDUCATOR ROADMAP



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