Alphabetical Listing of Activities

A DIRE DIET ........................................ 361
Search for food as different animals in a food chain to analyze possible consequences of pesticide accumulation in the environment.

A HOME AWAY FROM HOME ................... 222
Design a zoo habitat that provides all the necessary elements for a polar bear to survive in Phoenix.

A PICTURE IS WORTH A THOUSAND WORDS .... 463
Analyze pictures over time to explore how scientific knowledge and technological advancements change attitudes toward wildlife.

ADAPTATION ARTISTRY ........................... 206
Design and construct your own bird and describe your creation's adaptations and habitat.

ANIMAL CHARADES ................................... 337
Play a guessing game to depict and identify different characteristics of wild and domesticated animals.

ANIMAL POETRY ...................................... 339
Look to wildlife as inspiration for poetry writing.

ANTS ON A TWIG ..................................... 105
Observe ant behavior, then model ant movement and communication.

BACK FROM THE BRINK ......................... 414
Read about the American alligator, black-footed ferret, and gray wolf and examine issues related to the decline and recovery of threatened and endangered species.

BAT BLITZ ............................................. 135
Simulate bats feeding on insects and perform calculations to learn about one of the roles bats play in an ecosystem.

BIRD SONG SURVEY .................................. 459
Identify and inventory the local bird population.

BIRDS OF PREY ....................................... 184
Interpret data on wildlife populations and climate to recognize the interdependence of a healthy, functioning ecosystem.

BOTTLENECK GENES ................................. 268
Using a bottle, colored beads, and environmental scenario cards, investigate how genetic diversity within a population affects a species' ability to adapt and survive.

BUSY BEES, BUSY BLOOMS ...................... 111
Learn the process of pollination by acting as a bee or flower as pollen and nectar are exchanged.

CAREER CRITTERS .................................... 433
Examine ecological niches by matching “Critter Cards” to environmental problems in a local community; evaluate the potential contributions of an organism to help control a given problem.

CARRYING CAPACITY .................................. 55
Participate in a relay to see how food abundance or scarcity affects the carrying capacity of an ecosystem.

CHANGING THE LAND ............................... 395
Interpret student-page maps and scenarios to evaluate how habitat fragmentation affects wildlife, then compare and contrast aerial photographs to consider how changes in land use affect ecosystems.

CHECKS AND BALANCES ............................ 448
Acting as wildlife managers, play a card game and perform calculations to understand factors affecting a herd of animals.

COLOR CRAZY ......................................... 8
Create representations of wild animals designed to visually blend into or stand out in their habitats, then discuss coloration as an adaptation for survival.

DEER DILEMMA ....................................... 481
Consider and advocate for varying opinions on how an abundant deer population should be managed during a simulated commission meeting.

DOES WILDLIFE SELL? .............................. 294
Evaluate the uses and impacts of responses evoked by nature-based advertisements.

DROPPING IN ON DEER ............................. 475
Estimate the population density of deer in a given area by counting deer pellet groups.

ECO-ENRICHERS ..................................... 177
Design and conduct an experiment to investigate soil types and organisms found in soil.

ECOSYSTEM ARCHITECTS .......................... 260
Design an ecosystem restoration project to improve habitat and biodiversity in a fictional scenario.

ENVIRONMENTAL BAROMETER .................... 158
Plan an investigation of biotic and abiotic elements in an area to consider relationships between environmental factors and the presence or absence of wildlife.

FABLED FAUNA ......................................... 281
Read and watch stories about real and imaginary animals and explain how different representations can influence people's feelings about animals.

FIRE ECOLOGIES ..................................... 233
Carry out an investigation of burned and unburned habitat areas to evaluate the positive and negative effects fire has on wildlife and habitat.

FIRST IMPRESSIONS .................................... 278
Respond to images of different animals and consider why people feel the way they do about those animals.
FOOD FOOTPRINT ........................... 375
Construct a flow diagram to trace the origins of food sources, consider impacts of production, and recommend improvements.

FOREST IN A JAR ............................ 218
Conduct a simple investigation using a jar, soil, water, seeds, and a plant to explain the process of ecological succession.

GOOD BUDDIES ............................. 128
Play a card game to understand symbiotic relationships within an ecosystem.

GRAPHANANIMAL ............................ 61
Tally and graph the diversity of animals on a nature walk to compare different environments.

HABICACHE ................................. 123
Map evidence of wildlife and key habitat components using handheld devices with GPS to draw conclusions about the habitat needs of wildlife and humans.

HABITAT CIRCLES ............................ 78
Physically form an interconnected circle to demonstrate the interdependence of habitat components.

HABITAT HEROES ............................ 499
Take action in your community by designing and completing a habitat improvement project.

HERE TODAY, GONE TOMORROW .............. 251
Identify reasons that wildlife become vulnerable to extinction, and assess the vulnerability of various species.

INSECT INSPECTION ........................... 2
Ask an investigative question related to insects, then collect and explore insects to find out more.

INTERVIEW A SPIDER .......................... 15
Research and interview native wildlife species in a mock web talk show.

KEEPING COOL .............................. 200
Use thermometers in an investigation to explore how reptiles adapt to temperature changes.

LEARNING TO LOOK, LOOKING TO SEE ......... 334
Distinguish between casual and detailed observation as you describe your surroundings first from memory and then from focused observation.

LET'S TALK TURKEY ........................... 322
Using background information cards, construct a timeline chronicling societies’ historical use of the wild turkey.

LIGHTS OUT! ............................... 366
Learn about light pollution and its impacts, and design an action plan to reduce light pollution in your community.

LIMITING FACTORS: HOW MANY BEARS? .... 26
Simulate bears gathering habitat components to determine limiting factors for the given population.

MAP THAT HABITAT ........................... 73
Create a map to identify the location of the components of an animal’s habitat.

MIGRATION BARRIERS ........................ 455
Using a real-life example, make recommendations based on the consequences of developing a highway through a deer migration path.

MONARCH MARATHON ........................ 18
Students simulate the multi-Generational monarch butterfly migration and experience the limiting factors affecting monarch survival.

MUSEUM SEARCH FOR WILDLIFE .............. 284
View a variety of artwork to see how wildlife is presented in cultural art forms.

MUSKOX MANEUVERS ........................ 209
Simulate adaptations in predator and prey relationships in a game of “flag tag.”

MY KINGDOM FOR A SHELTER .................. 70
Create a model of an animal shelter.

NATURAL DILEMMAS ........................ 297
Read hypothetical dilemmas concerning wildlife and the environment, and discuss different courses of action based on one’s values and beliefs.

NATURE IN ART .............................. 343
Observe, draw, and photograph wildlife to recognize how wildlife inspires art and inquiry.

NO WATER OFF A DUCK’S BACK ............. 353
Conduct an investigation to examine ways that oil spills can negatively affect birds.

OH DEER! .................................... 42
Students become deer and habitat components in a physical activity that demonstrates population fluctuations, carrying capacity, and limiting factors.

OWL PELLETS ............................... 146
Examine owl pellets, reconstruct prey skeletons, and draw a food chain based on the contents.

PAY TO PLAY ................................. 309
Play a board game to investigate the requirements and consequences of consumptive and nonconsumptive uses of wildlife and natural resources.

PHENOLOGY AT PLAY ........................ 167
Perform skits and graph data to understand effects of climate change on phenology and a migratory bird population.

POWER OF A SONG .......................... 288
Interpret some influences of popular music on environmental attitudes.

QUICK-FROZEN CRITTERS ................. 214
Learn the importance of predator and prey adaptations in this version of “freeze tag.”

RAINDROPS AND RANGES ..................... 99
Create digital maps to explore interrelationships among rainfall, vegetation, and wildlife species.
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<td>Sort seeds based on dispersal method, and act as wildlife in a simulation to demonstrate seed dispersal.</td>
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<td>SMOKEY BEAR SAID WHAT?</td>
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<td>Create a mural to illustrate an ecosystem before, during, and after a fire.</td>
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<td>SURPRISE TERRARIUM</td>
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<td>Make observations of live animals to learn about camouflage and adaptations that help animals survive.</td>
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<td>SUSTAINABILITY: THEN, NOW, LATER</td>
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<td>Explore the concept of sustainability through an active simulation, then analyze first-person narratives reflecting the lifestyles of various time periods.</td>
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<td>THE POWER OF PLANNING</td>
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<td>Create a concept map to evaluate various energy sources, then advocate for an assigned form of energy production during a simulated city council meeting.</td>
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<td>THICKET GAME</td>
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<td>Learn about the importance of adaptations in a predator and prey version of &quot;hide and seek.&quot;</td>
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<td>TIME LAPSE</td>
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<td>Create a diagram that depicts changes in species diversity as an ecosystem undergoes succession.</td>
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<td>TO ZONE OR NOT TO ZONE</td>
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<td>Simulate a county commission meeting to understand the complexities of land-use planning and decision making.</td>
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<td>TRACKS!</td>
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<td>Search for and identify wildlife tracks, then make plaster casts of tracks.</td>
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<td>TROPHIC TRANSFER</td>
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<td>Work together as an increasingly complex assembly line to model organic production and energy loss at different trophic levels in an ecosystem.</td>
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<td>TURKEY TALLIES</td>
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<td>Compute and graph turkey population data over time to distinguish between exponential and linear growth and to examine how limiting factors affect population growth.</td>
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<td>Go on a scavenger hunt to observe and record different types of wildlife and habitat features in your schoolyard.</td>
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<td>WATER MILEAGE</td>
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<td>Perform calculations to understand how adaptations enable animals to survive in harsh environments.</td>
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<td>WHAT BEAR GOES WHERE?</td>
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<td>Create posters of three different bear habitats to illustrate that animals have adapted in order to live where they do.</td>
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<td>WHAT YOU WEAR IS WHAT THEY WERE</td>
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<td>Describe materials that humans have used for clothing, and consider the impact on wildlife and the environment. Construct and decorate a coat out of paper to represent different types of clothing materials used.</td>
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<td>WHAT'S THAT, HABITAT?</td>
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<td>Sort daily items into categories of “wants” and “needs” to examine what humans and wildlife need to survive.</td>
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<td>WHAT'S WILD?</td>
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<td>Identify, classify, and make collages of wild versus domesticated animals.</td>
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<td>WHICH NICHE?</td>
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<td>Read ecosystem cards to identify and compare species’ niches; then go outside to make observations of wildlife and various niches they fill.</td>
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<td>Investigate pending legislation and explore the legislative process that affects wildlife.</td>
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<td>Create your own nature journal and analyze writings of well-known naturalists.</td>
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<td>Find examples of wildlife used in official symbols, research their significance, and communicate your findings.</td>
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<td>WORLD TRAVELERS</td>
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<td>Plan and carry out an investigation in your schoolyard to identify native and nonnative plant populations, examining the positive and negative effects of their presence.</td>
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