MAMMALS

Grades 3-6

STUDENT JOURNAL

This journal belongs to:



INSTRUCTIONS

This student journal accompanies The Good and the Beautiful Mammals science unit. It contains all the worksheets and journal pages that are needed to complete the unit. Each student will need his or her own copy of the science journal.

Have each student take his or her time to create highquality work as the activities and worksheets are completed. Students may enjoy looking back on their past discoveries when they've finished.

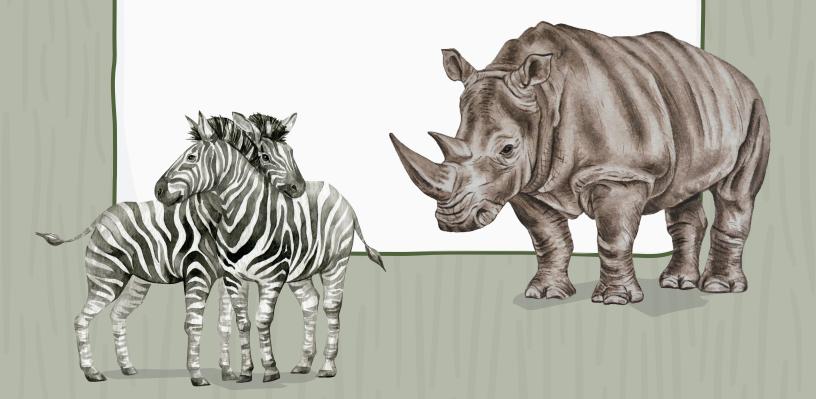


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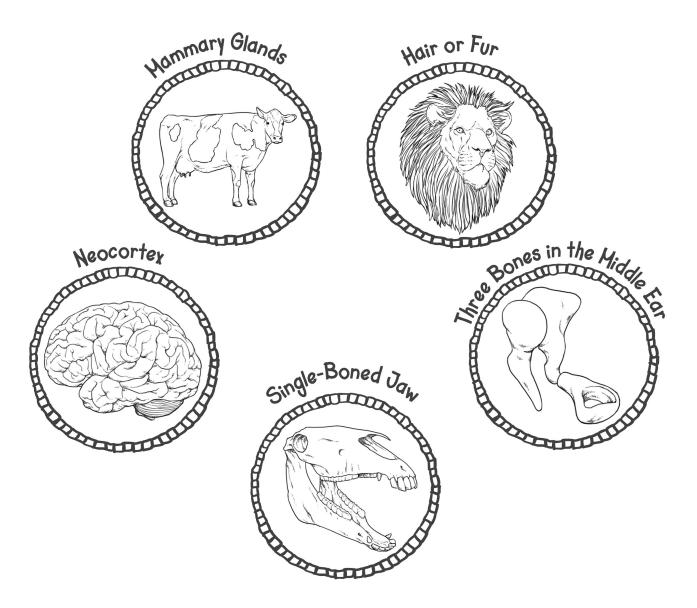
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MAMMAL CHARACTERISTICS

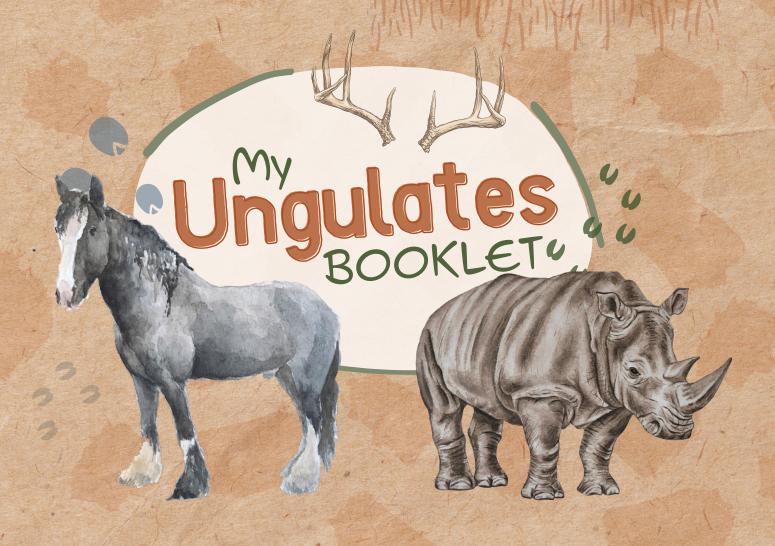
NOTE:

Repeat each characteristic aloud three times as you color this page.









PERISSODACTYLA: Odd-Toed Mammals

Features of Perissodactyls

They bear their weight on one toe.

They are herbivores.

They have hooves.

They have long faces.



Number of Toes Per Foot 4 front 3 hind 5 1

Partial or Full Hoof



Number of Toes Per Foot
2 5 3 1

Partial or Full Hoof



Number of Toes Per Foot 7 5 3 2 Partial or Full Hoof

UNGULATE RUNNING

Fill in the information on the chart below as you complete the running challenge.

Name	Time	Distance Run	Speed (feet per second) Calculate: Distance Run ÷ Child's Time	Speed (miles per hour) Calculate: Speed (feet per Second) x 0.68
Example	5 seconds	50 feet	50 feet ÷ 5 seconds = 10 ft/s	10 ft/s x 0.68 = 6.8 mph

HORSE BREEDS













Friesian

Clydesdale

Appaloosa

Shetland

American Quarter Horse

ARTIODACTYLA: Even-Toed Mammals

Features of Artiodactyls

They bear their weight evenly between two main toes.

They are herbivores.

They have hooves.

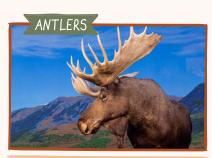
Most of them have fourchambered stomachs.

Most of them have powerful, elongated legs.

Many families in this order have horns, antlers, or tusks.

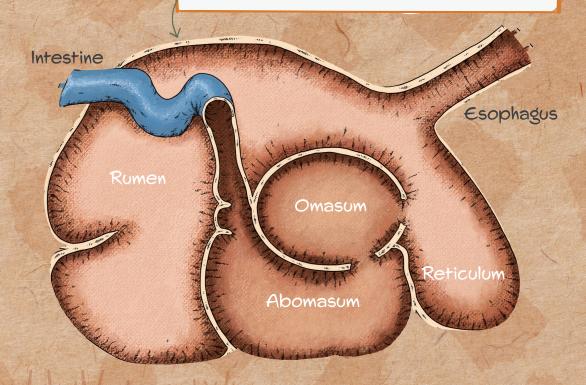


branch	do not branch				
fall off	do not fall off				
replaceable	not replaceable				
velvet covering	never covered with velvet				



branch	do not branch
fall off	do not fall off
replaceable	not replaceable
velvet covering	never covered with velvet

- RUMINANT DIGESTIVE SYSTEM



FEROCIOUS FELINES











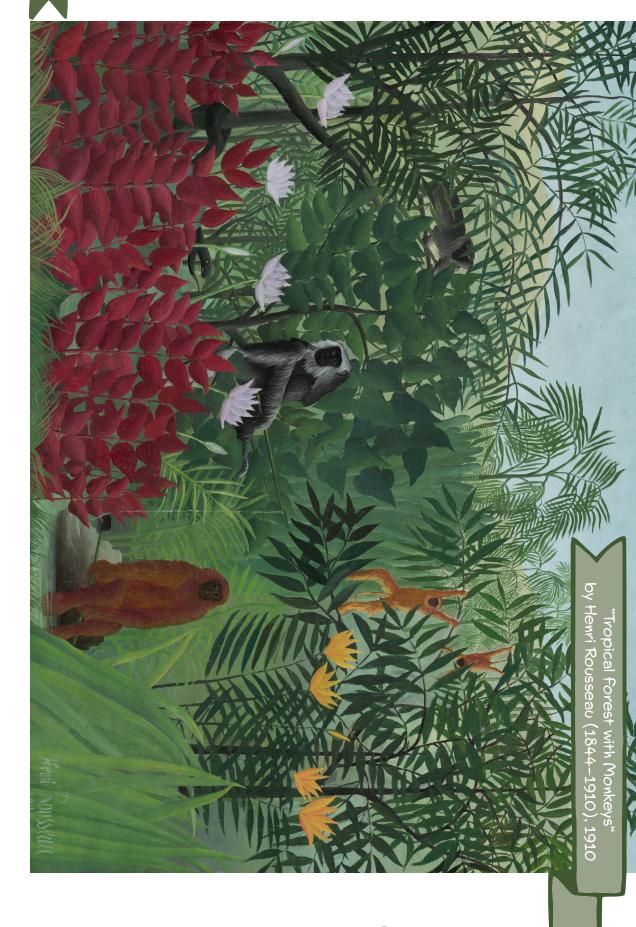








ART STUDY







MONKEY MYSTERY



Draw a line from each primate to the category it belongs to.

NEW WORLD MONKEY

- · comes from the Americas
- · has a prehensile tail
- · spends most of its time in trees

OLD WORLD MONKEY

- · comes from Africa and Asia
- · has a tail, but not a prehensile one
- spends most of its time on the ground

APE

- · comes from Africa and Asia
- · does not have a tail
- spends most of its time on the ground
- · is not considered a monkey



Mandrill



Slow Loris



Gorilla



Vervet



Pygmy Marmoset

What is a primate's favorite month?



e -













FEROCIOUS FELINES

5 SNOW LEOPARD

- Just as other cats were created with traits that help them to survive the heat in sub-Saharan areas
 of Africa, snow leopards were created to survive the cold in the mountainous areas of Asia using
 their thick fur coats.
- Their small ears are designed to lose less heat, and their long tail can wrap around them for extra warmth.
- They are very difficult to see because they are perfectly camouflaged in their snowy, mountainous habitats. This makes them hard to study.

6 DOMESTIC CATS

- Recent studies have linked the DNA roots of cat domestication to the Fertile Crescent and Egypt.
 Cat domestication may have begun with cats taming themselves rather than humans caging and taming them.
- As farming practices increased, there became a surplus of grains to store and trade on ships. This
 invited unwelcome rodents. Cats are natural predators of rodents.
- It wasn't until the 18th century, when selective breeding began, that cats became a more prevalent house pet. Scientists study changes in behavioral patterns and the color, pattern, and length of cat coats to determine the history of breeding over the years.

7 MOUNTAIN LION <

- Also called pumas or panthers, these wild cats are found throughout the Americas, generally wherever deer are found.
- They inhabit deserts, woodlands, and rocky mountains.
- They are the largest American wild cat; adult males can be more than 2.44 meters (8 feet) long.

8 BOBCAT

- Not as large as mountain lions, these fierce predators generally prey on rabbits, birds, or rodents, but they are capable of taking down prey that is up to eight times bigger than they are.
- Females raise their young, known as kittens, in a secluded den for up to 12 months. Domesticated cats have been known to care for orphaned bobcat kittens.
- The bobcat gets its name from its short "bobbed" tail.







WOLF VS. DOG IMAGES

Read the characteristics of the gray wolf and the husky dog on the "Wolf vs. Dog" page. On this page, cut out the two images under the first category (coat) and choose which of the two images best fits the wolf or the dog. Paste the images onto the worksheet. Repeat this for the remaining categories.





















TRACKS













MONOTREMES

Circle the fact you found most interesting from the activity.

Platypus

Scientific Name:

Ornithorhynchus anatinus

Size: 43-51 centimeters (17-20 inches)

Weight: 0.90-2.27 kilograms (2-5 pounds)

Top Swimming Speed:

About 35 kilometers per hour (22 miles per hour)

Diet: Carnivorous; insects, shellfish, and worms (They are bottom-feeders.)

Habitat: Australia; in freshwater streams, rivers, and lakes

Life Expectancy: 17 years

Fun Fact: They use their beaks to help them sense electrical impulses (like the heartbeats) in their prey.

Scientific Name: Tachyglossidae

Size: About 30-76 centimeters (12-30 inches), depending on the

species

Weight: 3-9 kilograms (7-20 pounds)

Top Speed: About 29 kilometers per hour (18 miles per hour)

Diet: Carnivorous; insects like ants and termites

Habitat: Australia and New Guinea; in arid forests

and grasslands

Life Expectancy: 14-16 years

Fun Fact: Their short snout digs, eats, senses, and

breathes.





POSSUM VS. OPOSSUM



They are native to Australia.
They appear very soft and have large ears and bushy tails.
Their fur is gold, brown, black, and gray.



They are native to North America and appear to be fierce. They have sharp teeth, coarse hair, and bare tails. Their fur is white and gray.



Using their strong teeth, they feed mostly on eucalyptus leaves, buds, flowers, and fruits. They can also eat insects and small animals. Close to suburban areas, they'll eat almost anything.



They eat grass, nuts, and fruit, and they hunt small animals like mice, birds, insects, and worms. Known for being

scavengers, they may raid garbage cans. By eating ticks, they help reduce the spread of Lyme disease in humans, since some ticks carry the disease.



Females will give birth to only one baby at a time, which will nurse in the mother's pouch and eventually ride on her back.



Females give birth to many young at a time, and they are as small as bees! They nurse in their mother's pouch and will ride on her back while she hunts.



They are solitary (live alone) but can be very noisy during breeding season!
They make clicking, chattering, hissing, and grunting sounds.
They can also make piercing screeches.



These creatures are known for the phrase "playing possum."
They pretend they are dead when they feel threatened by

a predator, hoping the predator will pass them by, giving them a chance to escape!





ART STUDY







BEAR SPECIES

Match each bear picture to the correct species name.



American Black Bear
Ursus americanus



Brown Bear Ursus arctos



Giant Panda Ailuropoda melanoleuca



Polar Bear Ursus maritimus



Sun Bear Helarctos malayanus



Spectacled Bear Remarctos ornatus





MAMMAL CONSERVATIONISTS BOOKLETS PAGE 1

Chimpanzee of Gombe

Current population in the wild: 170,000 to 300,000

Jane Goodall grew up in England. She developed a love for animals while reading books about a naturalist veterinarian, and she gained a love of Africa while reading fiction stories that took place on that amazing continent. She has been living with, studying, and teaching about the chimpanzees of Gombe for many decades! It began when she saw a male chimpanzee in the rainforest reserve looking for food. He used a twig to spoon termites out of their mound and into his mouth. She found it fascinating that he made a tool and used it like a human would. She also observed the chimpanzees showing affection for one another as humans do, and interestingly, she also saw them fighting a war! This occurred between two tribes of chimps and lasted about three years.

Bison of the American West

Current population in the wild: about 500,000

About 30-60 million bison once roamed North America. When American settlers pushed farther west in the 1800s, American bison were pushed out. By 1889, the bison numbers plummeted to a mere 1,091. How did this happen? Native Americans understood the land and had burned the grasses of the prairies to keep the trees from overtaking the bison range. However, farming settlers didn't know this, and their ways of farming left the soil depleted, affecting the balance of the prairie's ecosystem. The bison were also hunted by the millions during this time. In 1908, President Theodore Roosevelt passed legislation to establish the National Bison Range, and land was purchased for it. The American Society of Bison bought the first 34-40 bison for the bison range, and by 1910 there were 11 calves. While this allowed the bison to graze freely again, care for the land and the species is still needed to ensure their survival.

Chiru of Chang Tang, Tibet

Current population in the wild: 100,000 to 150,000

The chiru is a Tibetan antelope. The chiru's wool is very fine—one-fifth the thickness of human hair! It is used to make shahtoosh wedding shawls, and it takes four chiru to make one shawl. The demand was so great that it pushed the species near to extinction. George B. Schaller grew up in Germany reading books about Tibet. As an adult in the 1900s, he traveled there to study the wildlife. He found thousands of chiru carcasses lying in waste, so he decided to do something about it. He studied the herd and found the secret place where the chiru gave birth each year, away from hunters. He helped to make the buying and selling of the shahtoosh illegal. The number of chiru has been increasing in recent years because of conservation efforts.

Amur Leopard of Eastern Russia

Current population in the wild: greater than 103

One critically endangered species is the Amur leopard found in Eastern Russia (also home to the rare Amur tiger). Surrounded by agriculture and villages, the leopard's forests are being threatened, as well as its prey. Because of its highly admired pelt, poaching is also a major threat to this beautiful species. Land of the Leopard National Park was founded by the Russian government in 2012 to help protect the world's rarest feline species. There are 400 cameras installed all over the park to harmlessly capture these leopards on camera for people to see their movements.

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glue here

glue here





MAMMAL CONSERVATIONISTS BOOKLETS PAGE 2

Chimpanzee of Gombe



Bison of the American West

glue here

glue here



glue here



Chiru of Chang Tang, Tibet





Amur Leopard of Eastern Russia

glue here





