

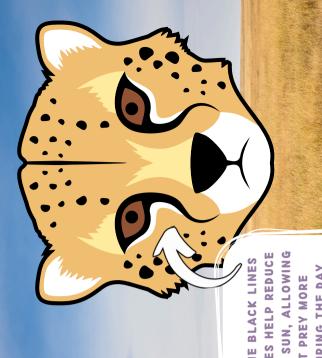
THE SERENGETI

This fact file compliments Lesson 4 in the Serengeti Science Expedition.

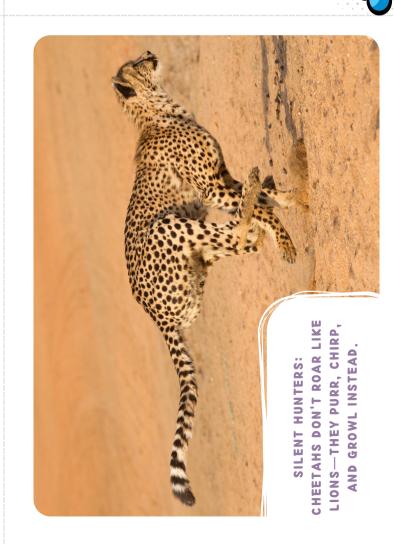
fact file



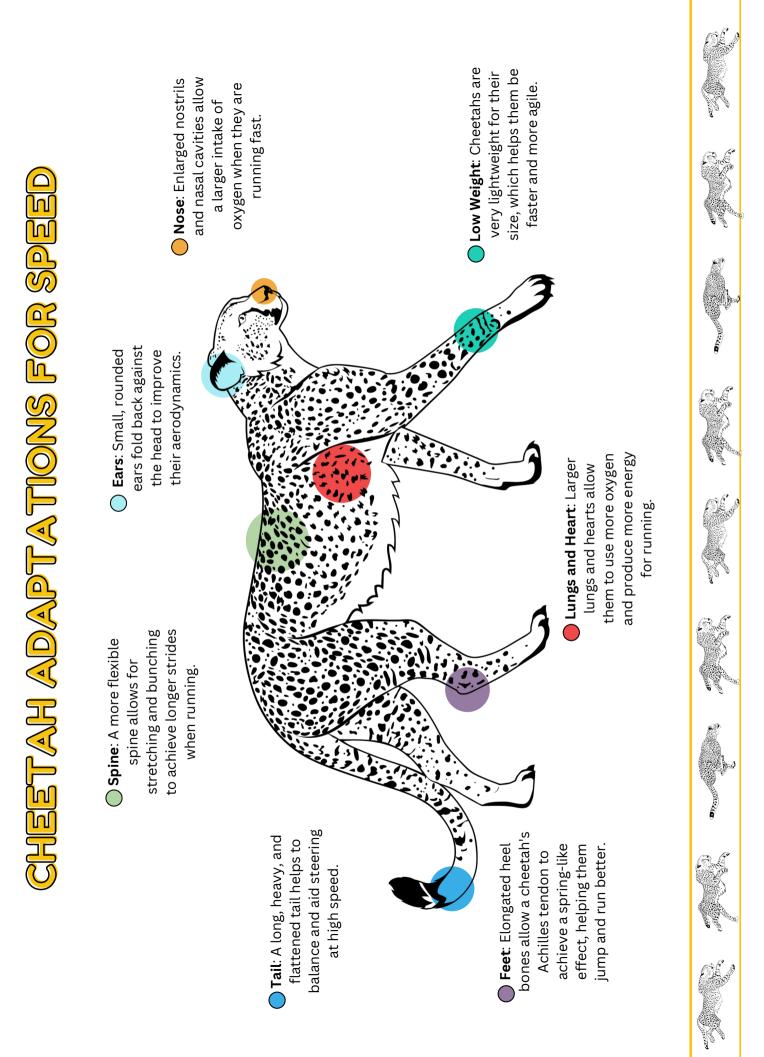
was a cheat-ah!



DOWN THEIR FACES HELP REDUCE GLARE FROM THE SUN, ALLOWING **TEAR MARKS: THE BLACK LINES** EFFECTIVELY DURING THE DAY. THEM TO SPOT PREY MORE



BETWEEN 2,000 AND 3,000 **CHEETAHS HAVE THE SAME** SPOTS ON THEIR BODIES! FINGERPRINTS, NO TWO CHEETAHS CAN HAVE JUST LIKE HUMAN SPOT PATTERN.



Why do you think cheetahs need to rest after a sprint, and how might this affect their hunting strategy throughout the day?

If you could change one thing about how you ran to improve your speed, what would it be and why?

Can you think of another fast animal? How is its body similar to or different from a cheetah's?

What factors do you think helped or slowed you down during your sprint?

How did your speed compare to how fast a cheetah can run?





Cheetahs use a combination of specialized adaptations to achieve extraordinary acceleration. The concept of force—how mass and velocity interact—explains how powerful, fast-twitch muscles generate the bursts of power needed for rapid movement. A flexible spine works like a spring, extending and contracting with each stride to cover ground efficiently. Semi-retractable claws provide grip, like cleats, maximizing traction during sprints. However, this speed comes at a cost—cheetahs adaptations make cheetahs expert hunters, perfectly suited for fast chases in open habitats.

Getting into Position

Cheetah vs. Sprinter: Masters of Speed

Both the cheetah and a sprinter rely on strength, balance, and body position to run fast. Let's take a look at how their movements are similar and what makes each unique.

The Launch: Energy Ready to Burst

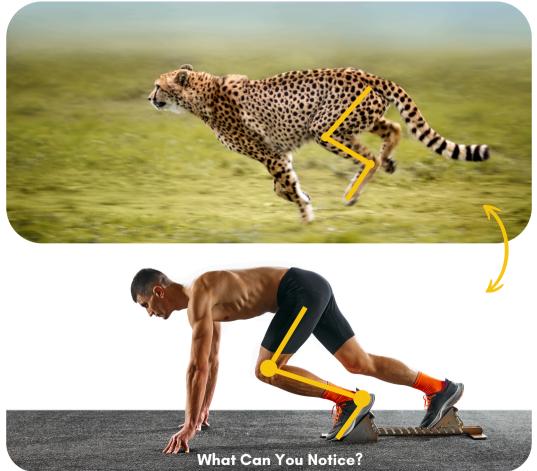
Cheetahs coil their bodies like springs before they sprint, storing energy. Similarly, sprinters use blocks to push off with power and accelerate as fast as possible.

Stride and Movement

A cheetah's flexible spine helps it stretch further with each stride, covering more ground quickly. Sprinters, on the other hand, rely on muscle power and precise timing to maintain speed.

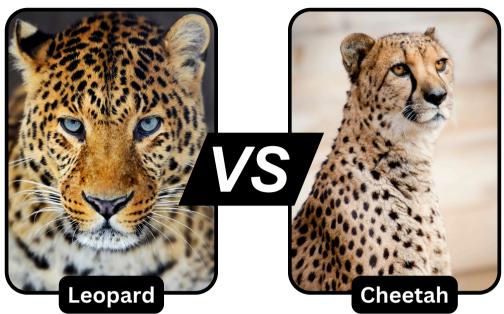
Balance on the Run

Cheetahs use their tails to steer during sharp turns, while sprinters use spikes in their shoes for traction and stability on the track.



How does the starting position help both the sprinter and the cheetah run faster? Why might a cheetah need more balance during a chase than a sprinter during a race?





SPOTS VS. ROSETTES:

Cheetahs have solid black spots all over their bodies, while leopards have rosette-shaped spots (black rings with a lighter center).

BODY SHAPE:

Cheetahs have a slim, lightweight build with long legs, built for speed. Leopards are stockier and more muscular, designed for climbing and strength.

SPEED VS. POWER:

Cheetahs are the fastest land animals, reaching 70 mph in short bursts. Leopards are not as fast but are excellent climbers and can drag heavy prey into trees to keep it safe from scavengers.

FACE MARKINGS:

Cheetahs have distinctive black "tear marks" running from their eyes to their mouths, which help reduce sun glare while hunting. Leopards don't have these marks.

SOCIAL LIFE:

Cheetahs are more solitary, especially females, though males sometimes form small groups called coalitions. Leopards are also solitary, spending most of their time alone.

DIET:

Cheetahs are carnivores that mainly hunt smaller prey, such as gazelles, impalas, and hares. They rely on speed to chase down prey. Leopards are also carnivores, but they hunt a wider range of prey, including antelope, monkeys, and even birds. Leopards rely on stealth and strength, ambushing prey and dragging it up into trees to avoid scavengers.