







Cows are ruminants

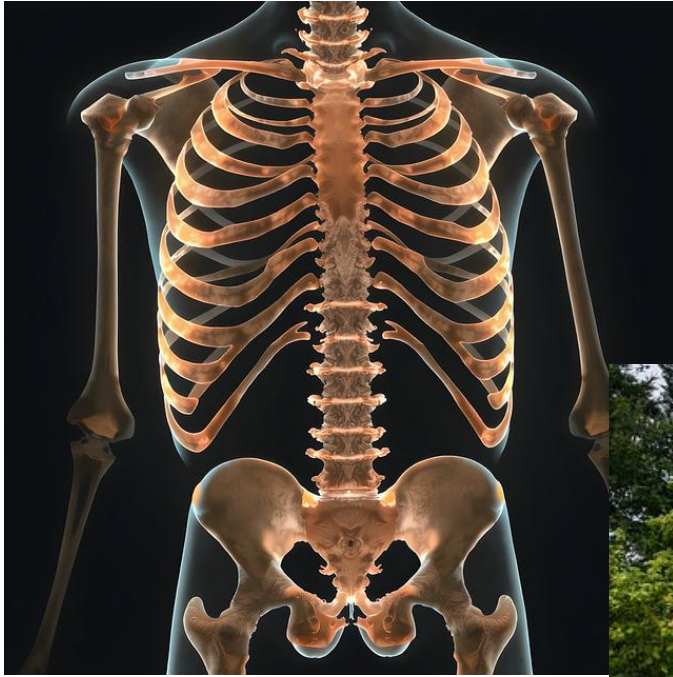




















Different animals use their tails for different reasons.

A dog uses its tail to express itself, like wagging it.

A monkey uses it to balance itself in trees.

Animals like **horses and cows** uses their tails to keep flies from landing on them.

Horses and cows can also twitch their skin when flies land on them!!!



Cows, sheep and deer are ruminant animals.

Ruminants are mammals that are able to gain nutrients from plant-based food, by fermenting it in a specialised stomach before digestion. The process requires the fermented food (known as **CUD**) to be regurgitated and chewed again. The process of rechewing the cud to break down plant matter further is called **ruminatio**n.

The word "ruminant" comes from the Latin *ruminare*, which means "to chew over again".



Sheep have widely spaced eyes and large rectangular pupils allowing them peripheral vision.

Why do **sheep** need to see all around them?

What other animals have a field of vision similar to sheep?



Sheep have a fantastic sense of smell

They use their sense of smell to:

- Find food
- Detect predators
- Identify females for mating
- Find their young



Sheep have different fleece colours.

Why do sheep have different fleece colours?



Animals such as sheep, goats, cows, pigs and horses have hooves

Hooves allow animals to walk for long distances on hard surfaces without damaging their toes. Some animals, including horses and zebras, have a single hoof at the bottom of each leg, others like cows and sheep are cloven hooved.



Horses can doze whilst standing up using the “stay apparatus”.

The **stay apparatus** is a group of ligaments, tendons and muscles which “lock” joints in the limbs of the **horse**.

The **stay apparatus** allows animals to relax their muscles and have a light sleep without collapsing.

Why do you think horses have developed the ability to sleep whilst standing up?



Horses do not have a clavicle (collar bone).

Why do humans have a collar bone?

Why do you think horses have adapted so that they don't have a collar bone?

What do horses have instead of a collar bone?



Chickens are flightless birds, but they do have the ability to jump and are fast across the ground.

To enable them to do this, their bones have a honeycombed structure, giving them a light but rigid frame.



Cows are well adapted to grazing.

They have a wide mouth, long tongue and specialised teeth. Adult cows have 32 teeth, but lack upper incisors and canines as they have a gummy pad instead.

Their tongues rip up the grass and their large molars grind the grass.



Sheep produce lanolin.

Lanolin is wax secreted by the sebaceous glands of wool producing animals.

Lanolin protects the fleece and skin from rain.

Lanolin is often used in human beauty products.