

# The Life and Characteristics of Horses

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## **Abstract**

This paper provides an overview of horses, their classification, behavior, and diet. It also presents scientific information about their habitat and biological characteristics. A hypothesis is proposed to estimate their life span using a mathematical formula.

## **1 Introduction**

Horses are domesticated mammals known for their strength, speed, and intelligence. They have been used by humans for transportation, farming, and sports for thousands of years. Horses communicate through body language and vocalizations.

## **2 Classification and Scientific Information**

### **2.1 Scientific Classification**

Horses belong to the class Mammalia and the family Equidae. They give birth to live young and feed them with milk.

### **2.2 Diet**

Horses are herbivores and mainly eat grass, hay, and grains. They have a digestive system adapted to a high-fiber diet.

### **2.3 Habitat**

Horses are found worldwide, mostly in grasslands, farms, and stables. Wild horses live in plains and open areas where they can graze freely.



Figure 1: A horse grazing in a field.



Figure 2: A horse running freely in a meadow.

Characteristic	Details
Scientific Name	Equus ferus caballus
Class	Mammal
Eats	Grass, hay, grains

Table 1: Scientific details and diet of horses

### 3 Images of Horses

### 4 Table of Horse Characteristics

### 5 Hypothesis about Horses

We can hypothesize that the life span of a horse depends on its size, diet, and environmental conditions.



Figure 3: A domesticated horse in a stable.

## 5.1 Mathematical Formula

Let  $L$  represent the life span of a horse in years,  $S$  its average height in hands (1 hand = 4 inches),  $F$  the average amount of food consumed per day in kilograms, and  $E$  an environmental factor ranging from 0.5 (poor care) to 1.5 (excellent care). A simple formula could be:

$$L = 15 + 0.5S + 0.05F \times E$$

This formula estimates the life span based on physical and environmental factors.

## 6 References

### References

- [1] Harris, P., 2011. Horse behavior and welfare. *Journal of Equine Science*, 22(3), pp.45-52.



Figure 4: A horse used in equestrian sports.