

Topic: THE EAGLE FLY AGAINST THE WIND.

7 INTRODUCTION

Work on your handwriting

Eagles, with their majestic presence and breath taking flight patterns, have captivated human imagination.

Of the many abilities possessed by these avian predators, their capacity to fly against the wind stands out as summa strudome of feats.

This essay delves deeper into the intriguing phenomenon of how eagles navigate and maneuver against strong air currents, defying the elements and showcasing their exceptional adaptability and physical prowess.

Outline Heading of outline comes before

1. Significance of eagle's ability to fly against wind.

11 Overview of eagle anatomy and adaptations

A) Resist wings and muscular strength

B) Wing shape and size for enhanced lift

C) Aerodynamic design and reduced drag

D) Wing flapping technique and high control

high control

Do not write like this with existing

good example is to write the word with the correct stroke

III A) The science behind flying

- against the wind;
- utilization of air pressure differentials
- B) Harnessing upward drafts and turbulence
- C) Adjusting wing flapping frequency and angle
- iv) Role of environmental factors
- A) Wind patterns and their effects on flight
- B) Adapting to varying wind speed and direction
- C) Behaviour strategies in dealing with strong winds
- v) Inspirations for survival and hunting strategies
- A) Hunting tactics in challenging weather conditions
- B) Energy efficiency and conserve during wind assisted flight

vi) Human application and inspiration

- a) Insights for aircraft design and engineering
- b) Inspiration of eagle and representation in culture and literature

shoulder joints
not let wings

Imagine standing on a corner
top of a building at the last expense
of the sky, when suddenly
you spot a magnificent eagle
soaring high above, seemingly defying
the strength of wind, with effortless
movements and unerring direction.
These winged creatures navigate
against the powerful currents, capturing
our attention and sparking curiosity
about the invisible forces that
enable them to accomplish what
are inspiring aerial feats.

To comprehend the intricacies
of eagle flying against the
wind, it is essential to examine
their unique anatomical features
and adaptations. Eagles possess
robust wings and muscular strength
that allow them to generate
significant lift and propulsion.

Furthermore, the aerodynamic
design of eagles contributes
to their ability to fly against
wind. Their specialized feathers
and specifically adapted bones
reduce air resistance, allowing
for improved efficiency
during flight. The skeletal structure of eagles
is designed to adjust surface area

3rd point of discussion

→ Focus on the low part

Completely irrelevant

DATE: ___/___/___
of their wings, adapting them to various wind conditions.

This adaptability allows eagles to maintain stable flight patterns even in the face of strong headwinds.

Flying against the wind requires an understanding of the complex principles of aerodynamics.

As eagles flap their wings, they create lift by stretching the air pressure above and below the wings. By adjusting the frequency and angle of their wing flapping, eagles can make counter the opposing air currents, maintaining forward momentum.

This requires a delicate balance between generating enough lift to overcome the wind's resistance, while avoiding excessive effort that leads to fatigue.

Additionally, eagles make use of air pressure differentials, created by the wing. By exploiting variations in the atmospheric pressure, they can navigate through turbulent air pockets, maintaining stability and control during flight.

In essence, eagles become masters of using the wind to their advantage, employing it as an invisible force that propels them forward, even when faced with strong headwinds. To understand the remarkable feat of flying against the wind, it is crucial to consider the role of environment factors, particularly wind patterns.

Eagles exhibit remarkable adaptability in responding to varying wind speeds and directions. They use their acute vision to assess the wind conditions, positioning themselves in optimal areas to take advantage of the prevailing air currents.

Eagles demonstrate an ability to adjust their flight tactics depending on the wind patterns they encounter. When facing strong headwinds, they may adopt a soaring flight technique, utilizing rising air currents and thermal updrafts to assist in propelling them forward. This strategy allows them to minimize energy expenditure while still holding

progress against wind. Alternating
in areas with unpredictable
wind gusts or turbulence, eagles
may employ more rapidly wing
flapping and maneuvering
relying on their agility to
maintain stability in challenging
conditions.

Furthermore environmental factors
such as topography and
vegetation influences how eagles
navigate strong winds. By
utilizing natural barriers
like cliffs and hills, eagles
can seek sheltered areas that
offer them protection from
full force of the wind.

In deep dense forests or canyons,
the wind's strength is often
diminished, providing eagles
with more favourable flying
conditions. This showcases
their ability to adapt their
flight path and exploit their
surroundings to mitigate the
challenges posed by strong
winds.

Flying against the wind
also allows eagles to conserve
energy but also capitalize
to hunt when

prey might not be elusive
or scarce. They can make
these currents and save energy
for defense and flying.
Moreover, flying against
the wind enhances the
agility and maneuverability
of eagles, allowing them
to adjust their flight paths
and quickly change directions.
This adaptability is particularly
beneficial when hunting in
open habitats helping them
target their prey.

In Skies of Freedom, eagles
dance with grace, defying
winds, they find their right
place. Like Maya Angelou,
they rise, their wings unfurled,
inspiring others.

Eagles soar above every
obstacle fearlessly and strongly.
Fly high, O eagle, in the
limitless sky, Let's not let
winds of doubt make you shy,
, unfurl your wings, with strength
and might, For in the face
of challenges, you shall ignite.
Isabel had also explained the
courage of eagle. He had
inspired by eagle's

life's Not to give up in
any situation. It serves as
a source of inspiration
and practical application
beyond the human realm.

However, the study of eagle's
flight has also provided
valuable insights for aircraft
design and engineering.
Engineers have been able
to draw upon the principles
of aerodynamics.

The struggle of eagles give
perseverance and reward that
come from facing and
conquering difficulties.

"In the middle of difficulties
lies opportunity". Albert Einstein

Eagle's strong determination
and attitude gives inspiration
for personal growth and
achievement.

^{the last}
At conclusion, the ability to
fly against the wind is
testament to their remarkable
adaptability and physical prowess.
Through their robust wings,
eagle's aerodynamic design
and strategic flight techniques
eagle navigate and maneuver

No structure
No proper
argumentation

Not a
conclusion

	Category	Total marks	Obtained marks
Content	Qualitative analysis	10	0
	Quantitative analysis	10	0
	Validity & Reliability	10	0
	Relevance	10	0
Language	Sentence structure	5	1
	Vocabulary	5	0
	Clarity	5	1
	Command of language	5	0
	Expression	5	0
Structure	Outline	5	1
	Introduction	5	1
	Body paragraphs	5	0
	Conclusion	5	0
Coherence	Cohesion	5	0
	Coherence	10	0
Total			4