

VERBS TABLE 1

A. YAŞAMAK & YERLEŞMEK	B. DENEYİMLEMEK & -E MARUZ KALMAK	C. KATLANMAK & DAYANMAK	D. BAŞLA(T)MAK	EDEN KAYNAKLANMAK GELMEK
1. live	1. undergo	1.put up with	1. start (off)	1. originate from
2. reside	2. experience	2. bear 🕞	2. begin	2. derive from
3. inhabit	3. face	3. stand 👨	3. initiate	3. come from
4. dwell	4. live	4. tolerate	4. instigate	4. be rooted in
5. occupy	5. be exposed to	5. withstand	5. commence	5. result from
6. colonise	6. encounter	6. endure	6. launch	6. stem from
7. settle	7. confront	7. survive	7. open	7. be triggered by
8. stay	8. subject sb/sth to		8. introduce	8. be caused by
	9. expose sth/ sb to		9. take up	9. be induced by
			10.break out	10. from / out of







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Humpback Whales:

An Overview of Their Life and Challenges

- Humpback whales (Megaptera novaeangliae) are majestic marine mammals that live in oceans around the globe.
- II. These whales are known for their impressive migrations, during which they reside in polar feeding grounds during summer months and inhabit tropical or subtropical waters in the winter to breed and give birth.
- III. While in these warmer regions, humpbacks dwell in coastal waters, sometimes moving closer to shorelines.
- IV. Their ability to adapt and occupy different habitats during migration allows them to effectively colonise both cold and warm marine ecosystems.
- V. As they transition between environments, they frequently settle in areas with abundant prey, although they only stay for brief periods before moving on.

Kambur Balinalar:

Yaşamları ve Karşılaştıkları Zorluklar (Zorluklara Genel Bakış)

- Kambur balinalar (Megaptera novaeangliae), dünyanın dört bir yanındaki okyanuslarda a. yaşayan / b. yaşarlar ve muhteşem deniz memelileridir.
- II. Bu balinalar, yaz aylarında kutup bölgelerinde ikamet ettikleri ve (ikamet edip) kış aylarında üremek ve doğum yapmak için tropikal veya subtropikal sularda yaşadıkları etkileyici a.göçleriyle bilinirler / b. göçleri bilirler.
- III. Bu sıcak <mark>a.bölgelerdeyken/ b.bölgelerin aksine,</mark> kambur sırtlılar kıyı sularında yaşar, ve bazen kıyı şeridine yaklaşırlar.
- Göç sırasında farklı habitatlara uyum sağlama ve bu habitatları işgal etme yetenekleri, hem soğuk hem de sıcak deniz ekosistemlerini etkili bir şekilde kolonize etmelerini a.sağlayabilir / b.sağlar.
- V. Ortamlar arasında a.geçiş yapsalar da / b.geçiş yaparken, sıklıkla bol miktarda avın bulunduğu bölgelere yerleşirler, a. ancak / b. çünkü yollarına devam etmeden önce sadece kısa bir süre kalırlar.





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Humpback Whales: An Overview of Their Life and Challenges Paragraph 2

- Throughout their lives, humpback whales undergo a variety of challenges, particularly during their long migrations.
- II. They experience shifting water temperatures, food shortages, and changing environmental conditions.
- III. In many instances, these whales must face predators or human-induced threats, such as entanglement in fishing gear or ship strikes.
- IV. They are often **exposed to** noise pollution, which can disrupt their communication.
- Additionally, humpback whales frequently encounter
 <u>obstacles like</u> pollution and habitat degradation, forcing them to adapt.
- VI. In some situations, they may even have to **confront** increasing levels of climate change-related threats.
- VII. These whales are regularly **subjected to** human activities that disturb their natural habitat, further exposing them to risk.

Kambur Balinalar: Yaşamları ve Karşılaştıkları Zorluklar(a Genel Bir Bakış)

- Kambur balinalar yaşamları a. göz önüne alındığında / b. boyunca, özellikle de uzun göçleri sırasında çeşitli zorluklarla karşılaşırlar.
- II. Değişen su sıcaklıkları, yiyecek kıtlığı ve değişen çevresel koşullarla a. karşılaşılmaktadır / b. karşılaşırlar.
- III. Birçok durumda, bu balinalar avcılarla ya da balıkçı takımlarına dolanma veya gemi çarpması gibi insan kaynaklı tehditlerle a. yüzleşmek zorundadırlar / b. zorunda kalabilirler.
- IV. Sıklıkla iletişimlerini a.bozan / b.bozabilecek gürültü kirliliğine a.maruz kalırlar / maruz kalabilirler.
- V. Ayrıca, kambur balinalar sıklıkla kirlilik ve habitat bozulması gibi engellerle karşılaşır, a.çünkü bu / b. ki bu onları uyum sağlamaya zorlar.
- VI. Hatta bazı durumlarda, iklim değişikliğine bağlı tehditlerin artan seviyeleriyle yüzleşmek a.zorundadırlar / b. zorunda kalabilirler.
- Bu balinalar düzenli olarak doğal yaşam alanlarını bozan insan faaliyetlerine maruz kalmaktadırlar,

 a.ki bu onları daha fazla riske maruz bırakmaktadır.

 b.ki bu yüzden onlar daha fazla riskle karşılaşmaktadırlar.





Humpback Whales: An Overview of Their Life and Challenges Paragraph 3

- In order to survive these challenges, humpbacks must put up with extreme environmental conditions.
- II. Their robust bodies **enable** them to bear the cold, deep waters where they feed on krill and small fish.
- III. Despite the harshness of their environment, humpback whales can stand up to these difficulties.
- IV. In spite of the harshness of their environment, humpback whales can stand up to these difficulties, <u>utilizing</u> their intelligence and physical strength.
- They can tolerate the turbulence of the ocean and withstand long migrations that test their endurance.
- VI. However, to endure such hardships, humpbacks must maintain their energy and strength, particularly when food becomes scarce.
- VII. Only the fittest whales are able to **survive** the journey from feeding to breeding grounds

- Bu zorluklardan a. sağ çıkabilmek için / b.sağ çıkmak istiyorlarsa kambur sırtlıların aşırı çevresel koşullara dayanması gerekir.
- II. Sağlam vücutları, kril ve küçük balıklarla beslendikleri soğuk ve derin sulara dayanmalarını a.sağlayabilir / b.sağlar.
- III. Yaşadıkları ortamın çetinliğine/sertliğine a.bakmaksızın /
 b.rağmen kambur balinalar bu zorluklara karşı koyabilirler.
- IV. Yaşadıkları ortamın <mark>çetinliğine/sertliğine **a.bakmaksızın** / **b.rağmen**kambur balinalar, zekâlarını ve fiziksel güçlerini</mark>

a. kullanarak / b.kullanabildikleri için
 bu zorluklara karşı koyabilirler.

- V. Okyanusun türbülansını tolere a.edebilir/b.ederler ve dayanıklılıklarını test eden uzun göçlere a.dayanırlar / b.dayanabilirler.
- VI. a.Ancak/ b.Bu yüzden, bu tür zorluklara a. dayanmak istiyorlarsa / b. dayanabilmek için kambur balinaların, özellikle de yiyecek azaldığında, enerjilerini ve güçlerini korumaları gerekir.
 - VII. Sadece en güçlü balinalar beslenmeden üreme alanlarına kadar olan yolculukta a. hayatta kalabilir /b. kalacaktır.







Humpback Whales: An Overview of Their Life and Challenges Paragraph 4

The life cycle of a humpback whale **starts off** in warm tropical waters, where calves are born.

These newborns begin their journey 1) a. alongside / b. backwards their mothers, learning essential survival skills.

2)a. On / b.Over time, calves initiate the migration towards colder waters, where they 3)will develop the strength needed for adulthood.

This cycle often **instigates** a pattern of migration that will continue **4)a.throughout / b.along** the whale's life.

5) When migration **commences**, the journey is rigorous, with whales needing to navigate vast distances.

Occasionally, whales may face new dangers that could break out along their migration routes, particularly as environmental conditions shift.

Bir kambur balinanın yaşam döngüsü, <u>yavruların doğduğu</u> sıcak tropikal sularda <mark>başlar</mark>.

Bu yeni doğanlar anneleri ile birlikte yolculuklarına başlayıp (başlar ve) temel hayatta kalma becerilerini öğrenirler.

Zamanla yavrular, yetişkinlik için gereken gücü

3)a.geliştirdikleri /b.geliştirecekleri daha soğuk sulara doğru göç etmeye başlarlar.

Bu döngü genellikle balinanın yaşamı boyunca devam edecek bir göç modelini başlatır.

5) a.Göç başladığında/ b.Göçün başlamasıyla birlikte,

balinaların büyük mesafeler kat etmesi gerektiğinden/ gerekmesiyle birlikte, yolculuk zorludur.

Zaman zaman balinalar, özellikle çevresel koşullar 6)a.değişirse / b.değiştikçe, göç rotaları boyunca ortaya çıkabilecek yeni tehlikelerle 7) a.karşılaşmak zorunda kalabilirler / b.karşılaşabilirler.





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Humpback Whales: An Overview of Their Life and Challenges Paragraph 5

The origins of the humpback whale's migratory behavior

1)a.originate from / b.extract from the need to find both food and suitable breeding grounds.

These patterns 2)likely derive from evolutionary adaptations to changing oceanic conditions.

Migration behavior can **3)a. also / b.conversely stem from** the biological necessity **to ensure** the survival of offspring in warmer waters.

Additionally, the timing and pathways of migration may **result from** shifting prey populations, 4)as humpbacks follow their food sources 5)a.over / b.across the oceans.

The whale's overall migratory patterns **6)a.were triggered / b.are triggered by** instinctual cues, such as seasonal changes.

Ultimately, their journey is one of survival, **7)a.deeply / b.accurately rooted in** nature's cyclical patterns.

Kambur balinanın göç davranışının kökenleri, hem yiyecek hem de uygun üreme alanları bulma ihtiyacın<mark>dan kaynaklanmaktadır.</mark>

Bu kalıplar **2)a.kesinlikle / b.muhtemelen** değişen okyanus kosullarına evrimsel adaptasyonlardan kaynaklanmaktadır.

3)Göç davranışı, daha sıcak sularda yavruların hayatta kalmasını sağlamak için biyolojik gereklilikten de kaynaklanabilir.

Ayrıca, göçün zamanlaması ve yolları, değişen av popülasyonlarından kaynaklanıyor olabilir **4)a.ancak /b. çünkü** kambur balinalar besin kaynaklarını okyanuslar boyunca takip ederler.

6) Balinanın genel göç düzeni, mevsimsel değişiklikler gibi içqüdüsel ipuçları tarafından tetiklenir.

7)Nihayetinde, onların yolculukları doğanın döngüsel kalıplarına derinlemesine kök salmış bir hayatta kalma yolculuğudur.





Reading Comprehension Questions Paragraph 1

Humpback whales (Megaptera novaeangliae) are majestic marine mammals that live in oceans around the globe. These whales are known for their impressive migrations, where they reside in polar feeding grounds during summer months and inhabit tropical or subtropical waters in the winter to **breed** and give birth. While in these warmer regions, humpbacks dwell in coastal waters, sometimes moving closer to shorelines. Their ability to adapt and occupy different habitats during migration allows them to effectively colonise both cold and warm marine ecosystems. As they transition between environments, they frequently settle in areas with abundant prey, although they only stay for brief periods before moving on.

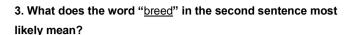
1. What is the main subject of the first sentence?

Humpback whales (Megaptera novaeangliae) are majestic marine mammals that live in oceans around the globe.

- A) The population of humpback whales
- B) The migratory routes of humpback whales
- C) The lifespan of humpback whales
- D) The global presence of humpback whales
- E) The breeding habits of humpback whales

2. Where do humpback whales live during the summer months?

- A) Coastal areas
- B) Tropical regions
- C) Polar feeding grounds
- D) Subtropical waters
- E) Deep-sea areas



- A) protect
- B) travel
- C) experience
- D) trigger
- E) reproduce

4. Based on the text, what can be inferred about humpback whales' migration patterns?

- A) They avoid coastal waters entirely because there are many people.
- B) They only migrate to coastal waters during summer.
- C) They occasionally move closer to coastlines during migration.
- D) They never approach coastlines as they are killed by fisherman.
- E) Their migration routes are stable and never change.





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5. What is the primary purpose of the author in mentioning that humpbacks adapt to different habitats?

"Their ability to adapt and occupy different habitats during migration allows them to effectively colonise both cold and warm marine ecosystems."

- A) To highlight the intelligence of humpback whales
- B) To explain how humpbacks survive in various ecosystems
- C) To demonstrate the variety of their feeding habits
- D) To show how humpbacks avoid predators in cold waters
- E) To criticize human activity affecting whales

6. The paragraph is mainly about----.

- A) The breeding habits of humpback whales
- B) The threats faced by humpback whales
- C) The social behavior of humpback whales
- D) The diet of humpback whales
- E) The migration and adaptability of humpback whales

7. What would be the best title for this paragraph?

- A) The Breeding Grounds of Humpback Whales
- B) Humpback Whales and Their Scarce Food Sources
- C) The Global Migration and Adaptability of Humpback Whales
- D) Similarities Between Polar and Tropical Habitats of Marine Mammals
- E) Challenges Faced by Marine Animals like Humpback Whales

8. What is the author's attitude toward humpback whales in this paragraph?

- A) Neutral
- B) Critical
- C) Indifferent
- D) Admiring
- E) Skeptical

Key:

- 1 Correct Answer: D
- 2 Correct Answer: C
- 3 Correct Answer: E
- 4 Correct Answer: C
- 5 Correct Answer: B
- 6 Correct Answer: E
- 7 Correct Answer: C
- 8 Correct Answer: D







Throughout their lives, humpback whales undergo a variety of challenges, particularly during their long migrations. They experience shifting water temperatures, food shortages, and changing environmental conditions. In many instances, these whales must face predators or human-induced threats, such as **entanglement** in fishing gear or ship strikes. They are often exposed to noise pollution, which can disrupt their communication. Additionally, humpback whales frequently encounter obstacles like pollution and habitat degradation, forcing them to adapt. In some situations, they may even have to confront increasing levels of climate change-related threats. These whales are regularly subjected to human activities that disturb their natural habitat, further exposing them to risk.

1. What is the main challenge humpback whales face during migration?

- A) Predation
- B) Long migrations
- C) Lack of breeding grounds
- D) Habitat destruction
- E) High temperatures
- 2. Which of the following is NOT mentioned as a challenge faced by humpback whales?
- A) Food shortages
- B) Shifting water temperatures
- C) Predators
- D) Overfishing
- E) Changing environmental conditions

3. What does the word "entanglement" in the third sentence most likely refer to?

- A) Becoming trapped in fishing gear
- B) Communicating with other whales
- C) Attacking ships
- D) Avoiding predators
- E) Escaping from nets

4. Based on the text, how does noise pollution affect humpback whales?

They are often exposed to noise pollution, which can disrupt their communication.

- A) It scares them away from breeding grounds.
- B) It helps them find food more easily.
- C) It disrupts their ability to communicate.
- D) It attracts predators to their location.
- E) It prevents them from migrating.







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5. What is the author's purpose in mentioning "pollution and habitat degradation"?

- A) To show how humpbacks thrive in polluted environments
- B) To illustrate additional difficulties that force humpbacks to adapt
- C) To discuss the benefits of whale migration
- D) To highlight the whales' reliance on human intervention
- E) To explain how humpbacks protect their habitats

6. The paragraph is mainly about----.

- A) The role of climate change and rising global temperatures in whale migration
- B) The challenges humpback whales face, both natural and human-made
- C) The social behavior of whales and the impact of migration on whales
- D) The diet and feeding habits of marine animals like whales
- E) The breeding cycle of immense sea creatures and that of humpback whales

7. What can be the best title for this paragraph?

- A) The Endangered Life of Humpback Whales
- B) Human Activity and Its Positive Effects on Marine Mammals
- C) The Migration Routes of Humpback Whales
- D) The Impact of Climate Change on Whale Populations
- E) Adapting to a Changing World: Challenges for Humpback Whales

8. What attitude does the author express about human impact on humpback whales?

- A) Indifferent
- B) Supportive
- C) Concerned
- D) Unaware
- E) Optimistic
- Paragraph 2 key
- 1 Correct Answer: B
- 2 Correct Answer: D
- 3 Correct Answer: A
- 4 Correct Answer: C
- 5 Correct Answer: B
- 6 Correct Answer: B
- 7 Correct Answer: E
- 8 Correct Answer: C







In order to survive these challenges, humpbacks must put up with extreme environmental conditions. Their robust bodies enable them to bear the cold, deep waters where they feed on krill and small fish. Despite the harshness of their environment, humpback whales can <u>stand up to</u> these difficulties, utilizing their intelligence and physical strength. They can tolerate the turbulence of the ocean and withstand long migrations that test their endurance. However, to endure such hardships, humpbacks must maintain their energy and strength, particularly when food becomes scarce. Only the fittest whales are able to survive the journey from feeding to breeding grounds.

1. What do humpback whales need to endure so as to survive?

- A) Limited migration routes
- B) Lack of food and famine
- C) Extreme environmental conditions
- D) Predators on their migration routes
- E) Human interaction close to the shores

2. What allows humpback whales to survive in cold, deep waters?

- A) Their robust bodies
- B) Their intelligence
- C) Their diet
- D) Their ability to migrate
- E) Their communication skills

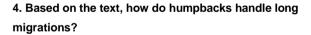
3. What does the phrase "stand up to" in the third sentence most likely mean?

Despite the harshness of their environment, humpback whales can stand up to these difficulties, utilizing their intelligence and physical strength.

- A) avoid
- B) overcome
- C) escape
- D) ignore

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E) depend on



- A) By migrating only short distances
- B) By feeding continuously during migration
- C) By relying on human intervention
- D) By using their endurance and strength
- E) By avoiding rough waters





In order to survive these challenges, humpbacks must put up with extreme environmental conditions. Their robust bodies enable them to bear the cold, deep waters where they feed on krill and small fish. Despite the harshness of their environment, humpback whales can **stand up to** these difficulties, utilizing their intelligence and physical strength. They can tolerate the turbulence of the ocean and withstand long migrations that test their endurance. However, to endure such hardships, humpbacks must maintain their energy and strength, particularly when food becomes scarce. Only the fittest whales are able to survive the journey from feeding to breeding grounds.

5. What does the author suggest is crucial for humpbacks when food becomes scarce?

- A) Avoiding migration
- B) Protecting their territory
- C) Maintaining energy and strength
- D) Finding new feeding grounds
- E) Competing with other whales

6. The paragraph is mainly about:

- A) The migration routes of humpback whales
- B) The physical and environmental challenges humpback whales face
- C) The social structure of humpback whales
- D) How humpback whales adapt to human activities
- E) The breeding habits of humpback whales

7. What would be the best title for this paragraph?

- A) The Strength and Resilience of Humpback Whales
- B) The Unhealthy Feeding Habits of Humpback Whales
- C) How Humpback Whales Avoid Predators
- D) The Role of Migration in Whale Survival
- E) Humpback Whales and Human Impact

8. What attitude does the author express about the humpback whales' ability to survive?

- A) Skeptical
- B) Pessimistic
- C) Indifferent
- D) Critical
- E) Admiring

Reading Comprehension Questions Paragraph 3 KEY

- 1 Correct Answer: C
- 2 Correct Answer: A
- 3 Correct Answer: B
- 4 Correct Answer: D
- 5 Correct Answer: C
- 6 Correct Answer: B
- 7 Correct Answer: A
- 8 Correct Answer: E





The life cycle of a humpback whale **starts off** in warm tropical waters, where calves are born. These newborns **begin** their journey alongside their mothers, learning essential survival skills. Over time, calves **initiate** the migration towards colder waters, where they will develop the strength needed for adulthood. This cycle often **instigates** a pattern of migration that will continue throughout the whale's life. When migration **commences**, the journey is rigorous, with whales needing to navigate vast distances. Occasionally, whales may face new dangers that could **break out** along their migration routes, particularly as environmental conditions shift.

1. Where does the life cycle of a humpback whale begin?

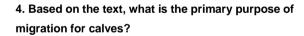
- A) Polar regions
- B) Coastal waters
- C) Deep ocean
- D) Warm tropical waters
- E) Subtropical regions

2. What do calves learn as they begin their journey?

- A) Hunting techniques
- B) Breeding habits
- C) Essential survival skills
- D) Social behaviors
- E) How to communicate with other whales

3. What does the word "initiate" most likely mean in the context of the third sentence?

- A) Prevent
- B) Avoid
- C) Delay
- D) Complete
- E) Begin



- A) To avoid predators
- B) To find a breeding ground
- C) To develop strength for adulthood
- D) To escape warm waters and stress
- E) To locate new food sources





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5. What can be inferred about the migration process of humpback whales?

- A) It is an easy journey
- B) It only happens once in a whale's life
- C) It is optional for whales
- D) It is completely safe
- E) It is a physically demanding process

6. The paragraph is mainly about----.

- A) The dangers whales face during migration
- B) The role of mothers in teaching whale calves
- C) How whales avoid predators during migration
- D) The breeding habits of humpback whales
- E) The life cycle and migration process of humpback whales

7. What is the best title for this paragraph?

- A) "The Migration and Life Cycle of Humpback Whales"
- B) "Challenges Faced by Whale Calves"
- C) "The Role of Environmental Conditions in Whale Survival"
- D) "Breeding Grounds of Humpback Whales"
- E) "The Journey of Adult Humpback Whales"

8. What attitude does the author express about the migration of humpback whales?

- A) Pessimistic
- B) Neutral
- C) Critical
- D) Appreciating
- E) Concerned

Reading Comprehension Questions Paragraph 4 Key

- 1 Correct Answer: D
- 2 Correct Answer: C
- 3 Correct Answer: E
- 4 Correct Answer: C
- 5 Correct Answer: E
- 6 Correct Answer: C
- 7 Correct Answer: A
- 8 Correct Answer: B





The origins of the humpback whale's migratory behavior originate from the need to find both food and suitable breeding grounds. These patterns likely derive from evolutionary adaptations to changing oceanic conditions. Migration behavior can also stem from the biological necessity to ensure the survival of **offspring** in warmer waters. Additionally, the timing and pathways of migration may result from shifting prey populations, as humpbacks follow their food sources across the oceans. The whale's overall migratory patterns are triggered by instinctual cues, such as seasonal changes. Ultimately, their journey is one of survival, deeply rooted in nature's cyclical patterns.

1. According to the text, what is the primary reason for humpback whale migration?

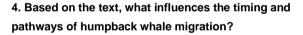
- A) To find food and breeding grounds
- B) To explore new territories
- C) To avoid predators
- D) To escape cold waters
- E) To improve communication with other species

2. What factor most likely led to the evolution of humpback whale migration patterns?

- A) Human interaction
- B) Evolutionary adaptations to changing oceanic conditions
- C) Whale communication systems
- D) Increased population
- E) Tidal changes

3. What does the word "offspring" in the third sentence most likely mean?

- A) young
- B) prey
- C) predator
- D) habitat
- E) predecessor



- A) The distance to colder waters
- B) The strength of the whales
- C) The presence of predators
- D) Shifting prey populations
- E) The behavior of other whale species





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5. What can be inferred about the whale's migratory patterns?

- A) They are prompted by instinctual signals.
- B) They are unpredictable and irregular.
- C) They are learned from other whales.
- D) They are influenced mainly by human activities.
- E) They are fixed and never change.

6. The paragraph is mainly about ----.

- A) How marine mammals like humpback whales choose breeding grounds
- B) The role of evolutionary changes in migration patterns of animals
- C) The reasons and patterns behind humpback whale migration
- D) The threats to whale migration patterns
- E) The influence of humans on whale behavior

7. What would be the best title for this paragraph?

- A) The Evolutionary Patterns of Whale Migration
- B) The Instincts Behind Humpback Whale Migration
- C) How Prey Populations Influence Humpback Whales
- D) Survival Through Migration: Humpback Whales
- E) The Role of Seasonal Changes in Whale Behavior
- 7. Correct Answer: D

8. What attitude does the author express about the migration of humpback whales?

- A) Disapproving
- B) Admiring
- C) Concerned
- D) Neutral
- E) Skeptical

Reading Comprehension Questions Paragraph 5 key

- 1. Correct Answer: A
- 2. Correct Answer: B
- 3. Correct Answer: A
- 4.Correct Answer: D
- 5. Correct Answer: A
- 6.Correct Answer: C
- 7. Correct Answer: D
- 8. Correct Answer: D





Humpback Whales: An Overview of Their Life and Challenges

Humpback whales (**Megaptera novaeangliae**) are majestic marine mammals that **live** in oceans around the globe. These whales are known for their impressive migrations, during which they **reside** in polar feeding grounds during summer months and **inhabit** tropical or subtropical waters in the winter to breed and give birth. While in these warmer regions, humpbacks **dwell** in coastal waters, sometimes moving closer to shorelines. Their ability to adapt and **occupy** different habitats during migration allows them to effectively **colonise** both cold and warm marine ecosystems. As they transition between environments, they frequently **settle** in areas with abundant prey, although they only **stay** for brief periods before moving on.

Throughout their lives, humpback whales **undergo** a variety of challenges, particularly during their long migrations. They **experience** shifting water temperatures, food shortages, and changing environmental conditions. In many instances, these whales must **face** predators or human-induced threats, such as entanglement in fishing gear or ship strikes. They are often **exposed to** noise pollution, which can disrupt their communication. Additionally, humpback whales frequently **encounter** obstacles like pollution and habitat degradation, forcing them to adapt. In some situations, they may even have to **confront** increasing levels of climate change-related threats. These whales are regularly **subjected to** human activities that disturb their natural habitat, further exposing them to risk.

In order to survive these challenges, humpbacks must **put up with** extreme environmental conditions. Their robust bodies
enable them to **bear** the cold, deep waters where they feed on
krill and small fish. Despite the harshness of their environment,
humpback whales can **stand** up to these difficulties, utilizing
their intelligence and physical strength. They can **tolerate** the
turbulence of the ocean and **withstand** long migrations that test
their endurance. However, to **endure** such hardships,
humpbacks must maintain their energy and strength, particularly
when food becomes scarce. Only the fittest whales are able to **survive** the journey from feeding to breeding grounds.

Kambur Balinalar: Yaşamları ve Karşılaştıkları Zorluklar(a Genel Bir Bakış)

Kambur balinalar (**Megaptera novaeangliae**), dünyanın dört bir yanındaki okyanuslarda **yaşayan** muhteşem deniz memelileridir. Bu balinalar, yaz aylarında kutup bölgelerinde **ikamet edip** kış aylarında üremek ve doğum yapmak için tropikal veya subtropikal sularda yaşadıkları etkileyici göçleriyle bilinirler.Bu sıcak bölgelerdeyken, Kambur sırtlılar kıyı sularında yaşar, bazen kıyı şeridine yaklaşırlar. Göç sırasında farklı habitatlara uyum sağlama ve bu habitatları işgal etme yetenekleri, hem soğuk hem de sıcak deniz ekosistemlerini etkili bir şekilde kolonize etmelerini sağlar. Ortamlar arasında geçiş yaparken, sıklıkla bol miktarda avın bulunduğu bölgelere yerleşirler, yine de yollarına devam etmeden önce sadece kısa bir süre kalırlar.

Kambur balinalar yaşamları boyunca, özellikle de uzun göçleri sırasında çeşitli zorluklarla karşılaşırlar. Değişen su sıcaklıkları, yiyecek kıtlığı ve değişen çevresel koşullarla karşılaşırlar. Birçok durumda, bu balinalar avcılarla ya da balıkçı takımlarına dolanma veya gemi çarpması gibi insan kaynaklı tehditlerle yüzleşmek zorundadır. Sıklıkla iletişimlerini bozabilecek gürültü kirliliğine maruz kalırlar. Ayrıca, kambur balinalar sıklıkla kirlilik ve habitat bozulması gibi engellerle karşılaşır ve bu da onları uyum sağlamaya zorlar. Hatta bazı durumlarda, iklim değişikliğine bağlı tehditlerin artan seviyeleriyle yüzleşmek zorunda kalabilirler. Bu balinalar düzenli olarak doğal yaşam alanlarını bozan ve onları daha fazla riske maruz bırakan insan faaliyetlerine maruz kalmaktadır.

Bu zorluklardan sağ çıkabilmek için kambur sırtlıların aşırı çevresel koşullara dayanması gerekir. Sağlam vücutları, kril ve küçük balıklarla beslendikleri soğuk ve derin sulara dayanmalarını sağlar. Yaşadıkları ortamın çetinliğine/sertliğine rağmen kambur balinalar zekâlarını ve fiziksel güçlerini kullanarak bu zorluklara karşı koyabilirler. Okyanusun türbülansını tolere edebilir ve dayanıklılıklarını test eden uzun göçlere dayanabilirler. Ancak, bu tür zorluklara dayanabilmek için kambur balinaların, özellikle de yiyecek azaldığında, enerjilerini ve güçlerini korumaları gerekir. Sadece en güçlü balinalar beslenmeden üreme alanlarına kadar olan yolculukta hayatta kalabilir.



The life cycle of a humpback whale **starts off** in warm tropical waters, where calves are born. These newborns **begin** their journey alongside their mothers, learning essential survival skills. Over time, calves **initiate** the migration towards colder waters, where they will develop the strength needed for adulthood. This cycle often **instigates** a pattern of migration that will continue throughout the whale's life. When migration **commences**, the journey is rigorous, with whales needing to navigate vast distances. Occasionally, whales may face new dangers that could **break out** along their migration routes, particularly as environmental conditions shift.

The origins of the humpback whale's migratory behavior originate from the need to find both food and suitable breeding grounds. These patterns likely derive from evolutionary adaptations to changing oceanic conditions. Migration behavior can also stem from the biological necessity to ensure the survival of offspring in warmer waters. Additionally, the timing and pathways of migration may result from shifting prey populations, as humpbacks follow their food sources across the oceans. The whale's overall migratory patterns are triggered by instinctual cues, such as seasonal changes. Ultimately, their journey is one of survival, deeply rooted in nature's cyclical patterns.

Bir kambur balinanın yaşam döngüsü, yavruların doğduğu sıcak tropikal sularda başlar. Bu yeni doğanlar anneleri ile birlikte yolculuklarına başlayıp (başlar ve) temel hayatta kalma becerilerini öğrenirler. Zamanla yavrular, yetişkinlik için gereken gücü geliştirecekleri daha soğuk sulara doğru göç etmeye başlarlar. Bu döngü genellikle balinanın yaşamı boyunca devam edecek bir göç modelini başlatır. Göç başladığında, balinaların büyük mesafeler kat etmesi gerektiğinden/ gerekmesiyle birlikte, yolculuk zorludur. Zaman zaman balinalar, özellikle çevresel koşullar değiştikçe, göç rotaları boyunca ortaya çıkabilecek yeni tehlikelerle karsılasabilirler.

Kambur balinanın göç davranışının kökenleri, hem yiyecek hem de uygun üreme alanları bulma ihtiyacından kaynaklanmaktadır. Bu kalıplar muhtemelen değişen okyanus koşullarına evrimsel adaptasyonlardan kaynaklanmaktadır. Göç davranışı, daha sıcak sularda yavruların hayatta kalmasını sağlamak için biyolojik gereklilikten de kaynaklanabilir. Ayrıca, kambur balinalar besin kaynaklarını okyanuslar boyunca takip ettiklerinden, göçün zamanlaması ve yolları, değişen av popülasyonlarından kaynaklanıyor olabilir. Balinanın genel göç düzeni, mevsimsel değişiklikler gibi içgüdüsel ipuçları tarafından tetiklenir. Nihayetinde, onların yolculukları doğanın döngüsel kalıplarına derinlemesine kök salmış bir hayatta kalma yolculuğudur.







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