

Name:

Hour:

**The Discovery Channel's
"Blue Planet: Frozen Seas"**

**Episode 1: Breathtaking footage shows how animals survive polar winters. Dr. Martha Holmes, Doug Allen, and Dr. Gerald Kooyman
(2007)**

The Artic (North Pole)

1. Why do the Beluga Whales have scratches?
2. What animal is at the top of the Artic Food Chain?
3. What helps camouflage pup seals?
4. What do Hooded Seals use to attract mates?
5. Why is important for seal pups to be weaned quickly?

The Artic Summer

6. What are Leads?
7. How far can male Beluga Whales dive?
8. Which whale is the largest in the Artic?
9. The Bowhead Whale has the largest mouth of any animal on earth, how much does its tongue weigh?
10. Bowhead Whales use Baleen Plates, instead of teeth, to trap food inside their mouths. How many tons of food does a single Bowhead Whale consume using this method?

Antarctica (South Pole)

11. Antarctica is so cold and windy; it is the only place on earth without what?
12. Which sex of Emperor Penguins incubates the eggs?
13. What strategy does the Weddell Seal use to stay alive?
14. How do the Weddell Seals keep their air holes open?
15. Why can Chin-Strap Penguins lay their eggs directly on the ground unlike Emperor Penguins?

Antarctic Spring

16. Minke Whales are the most common whale in which ocean?
17. What animal is the staple of the Antarctic diet?
18. Which animal(s) depends on Krill?
19. What animal is the most lethal predator of Emperor Penguins?
20. What do female Emperor Penguins rely on to recognize their chicks?
21. How do the female Emperor Penguins feed their chicks?
22. What animal is totally dependent on sea ice?

*****ANSWERS*****

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Episode 1: Breathtaking footage shows how animals survive polar winters. Dr. Martha Holmes, Doug Allen, and Dr. Gerald Kooyman (2007)

The Artic (North Pole)

1. Why do the Beluga Whales have scratches? They were attacked by Polar Bears because they were trapped.
2. What animal is at the top of the Artic Food Chain?
3. What helps camouflage pup seals? White Fur
4. What do Hooded Seals use to attract mates? Their nasal displays
5. Why is important for seal pups to be weaned quickly? To get into the water and away from predators sooner.

The Artic Summer

6. What are Leads? Corridors or cracks in the ice that lead to open water
7. How far can male Beluga Whales dive? Males 1500 feet
Females/young 900 feet
8. Which whale is the largest in the Artic? Bowhead Whales
9. The Bowhead Whale has the largest mouth of any animal on earth, how much does its tongue weigh? 1 ton tongue
10. Bowhead Whales use Baleen Plates, instead of teeth, to trap food inside their mouths. How many tons of food does a single Bowhead Whale consume using this method? 2 Tons per day

Antarctica-(South Pole)

11. Antarctica is so cold and windy; it is the only place on earth without what? 4 legged creatures
12. Which sex of Emperor Penguins incubates the eggs? Males
13. What strategy does the Weddell Seal use to stay alive? Stays in the water because it is warmer than the outside wind.
14. How do the Weddell Seals keep their air holes open? Scrape ice with front teeth.
15. Why can Chin-Strap Penguins lay their eggs directly on the ground unlike Emperor Penguins?

Antarctic Spring

16. Minke Whales are the most common whale in which ocean?
Southern
17. What animal is the staple of the Antarctic diet? Krill
18. Which animal depends on Krill? Virtually every animal no matter how big or small
19. What animal is the most lethal predator of Emperor Penguins?
Leopard Seal
20. What do female Emperor Penguins rely on to recognize their chicks?
Their male (partners) call.
21. How do the female Emperor Penguins feed their chicks?
Regurgitation, puke
22. What animal is totally dependent on sea ice? Polar Bear