

Name _____

Exploring the Enigmatic Southern Ocean: Antarctica's Icy Realm

Short Answer Key

1. The Southern Ocean surrounds Antarctica and is characterized by freezing temperatures, strong winds, and the presence of massive icebergs.
2. The Antarctic Circumpolar Current is a powerful ocean current that flows around Antarctica, connecting the Atlantic, Indian, and Pacific Oceans. It is important for regulating the Earth's climate by transporting heat and nutrients.
3. The rich marine biodiversity of the Southern Ocean supports its ecosystems by providing a diverse food web and ensuring the survival of many species, including krill, seals, and whales.
4. Zaria Forman's artwork draws attention to climate change and polar regions by creating hyper-realistic paintings that emphasize the dramatic beauty and fragility of these remote environments, inspiring viewers to care about their conservation.
5. Answers may vary, e.g., Emperor penguins have adapted to the extreme conditions of the Southern Ocean with thick layers of blubber and waterproof feathers.

