



G.D.GOENKA PUBLIC SCHOOL

Subject: Science (7th)

Thursday, 12th August 2021

Topic: Adaptations.

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LEARNING OBJECTIVE: To understand the adaptations taken by animals in polar regions.

SKILL FOCUS: Observation of various adaptations in polar bear.

ADAPTATION SHOWN BY ANIMALS IN POLAR REGIONS:

The polar regions present an extreme climate. These regions are covered with snow and it is very cold for most part of the year. For six months the sun does not set at the poles while for the other six months the sun does not rise. In winters, the temperature can be as low as -37°C . Animals living there have adapted to these severe conditions.

POLAR BEARS:

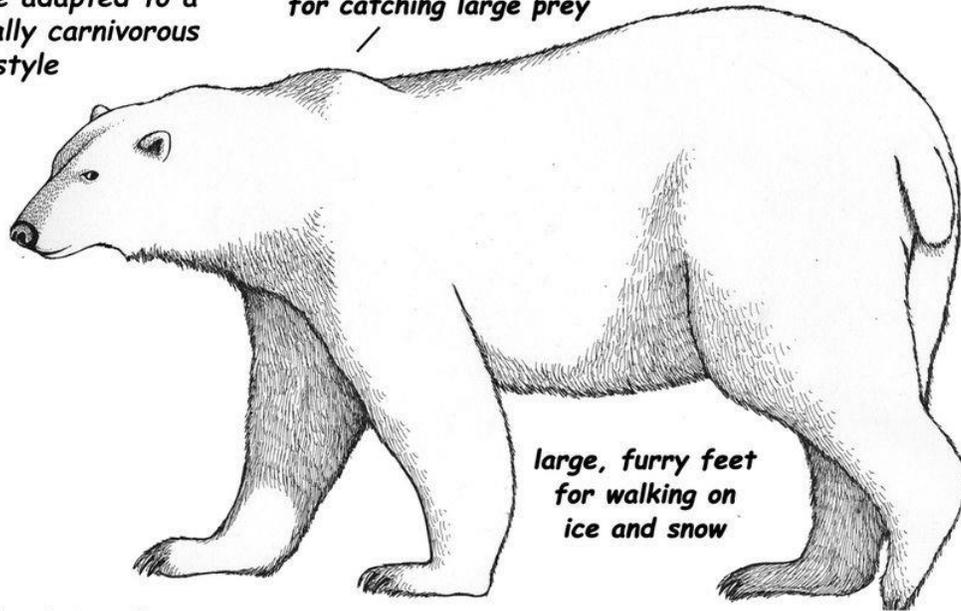
Polar bears have white fur so that they are not easily visible in the snowy white background. It also helps them in catching their prey. To protect them from extreme cold, they have two thick layers of fur. They also have a layer of fat under their skin. In fact, they are so well-insulated that they have to move slowly and rest often to avoid getting overheated. Physical activities on warm days necessitate cooling. So, the polar bear goes for swimming. It is a good swimmer. Its paws are wide and large, which help it not only to swim well but also walk with ease in the snow. While swimming under water, it can close its nostrils and can remain under water for long durations. It has a strong sense of smell so that it can catch its prey for food. Another well-known animal living in the polar regions is the penguin. It is also white and merges well with the white background. It also has a thick skin and a lot of fat to protect it from cold. You may have seen pictures of penguins huddled together. This they do to keep warm.

Polar Bear Adaptations

most bears eat some plant matter, but where polar bears live, they have adapted to a totally carnivorous lifestyle

muscle hump over shoulders for catching large prey

white fur helps them hide in plain sight



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