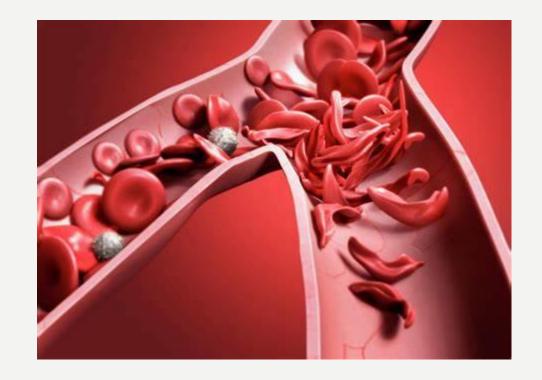
SMITHSONIAN NATIONAL MUSEUM

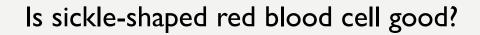
• Evolutionary rule: The fittest survives. Animals have different ways to adapt to their environments.





• Sickle cell anaemia



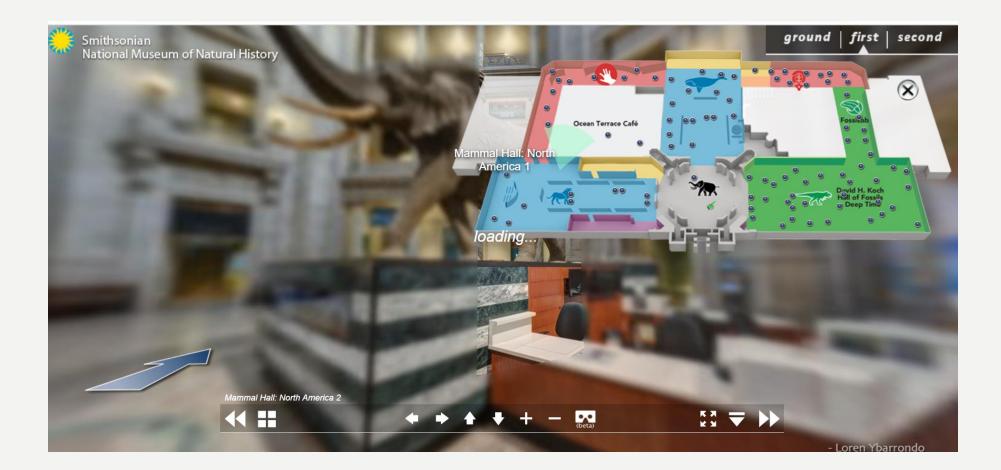






- Malaria: Plasmodium go into the blood to do harm to our bodies.
- Many suffer from malaria in Africa.
- Sickle cells can starve the plasmodium to death, so more people in Africa have this trait.
- Some things may not seem good, but they are not always bad.





Smithsonian National Museum of Natural History

Before the AreManninel Hall: North An

North America The Frozen North

Mammals of the Far North face long, freezing winters and habitats covered with snow. How do they manage to survive?

10

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ground first second

https://naturalhistory2.si.edu/vt3/NMNH/z_tour-022.html

https://artsandculture.google.com/streetview/smithsonian-national-museum-of-naturalhistory/2QFvs7CNpx_Xgg?sv_lng=-77.0267452099051&sv_lat=38.89106385636837&sv_h=259.69904394432564&sv_p=-19.62634137430686&sv_pid=k2FzC7NK1PlwPY-ELIUTAQ&sv_z=0.2761423840306686

TWO KINDS OF FORESTS





Q1:What is the difference between these two types of leaves? Q2:Which place is colder? Why?

CONIFEROUS FOREST



Cold-tolerant. The needle-like leaves enable them to withstand harsh environments, like dry, wind, and cold.

DECIDUOUS FOREST



Moderate and pluvious during winter; hot and dry during summer (the leaves have certain adaptations to dryness).

Bears





QI:What are the two types of bear? Q2:What is the difference in appearance of these two bears?

The difference between black bear and grizzly bear



不能只用颜色和大小判断, 需要结合其他特征

Face: Black bear looks like a dog, with a straight and long face.

- Back: Grizzly bear has heaves like that of a camel's.
- Claws: Black bear's claws are aligned into a curve, while that of grizzly bear are more straightly aligned.

Black bear

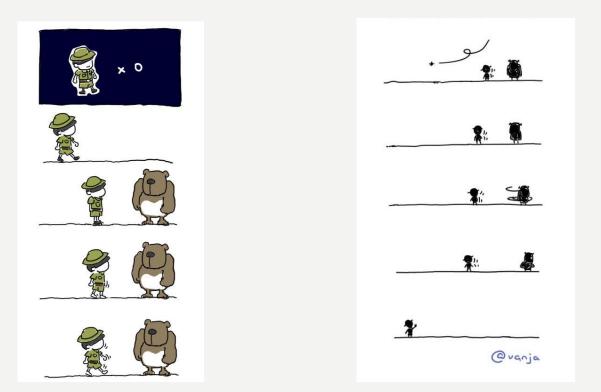


- Good at climbing trees.
- > Omnivores.
- Black bears are not necessarily black! Their furs can be brown or light grey.

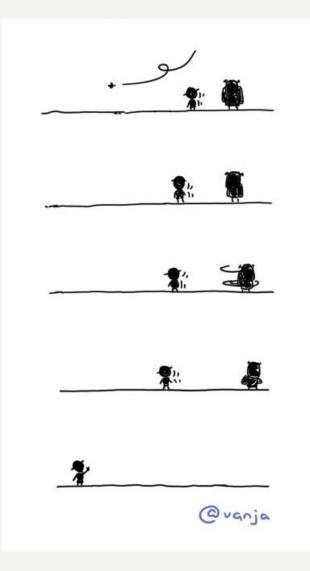
Grizzly bear



- ➤ Larger in size.
- \succ Has a faster speed.
- > Very fierce.
- Grizzly bears can also be cream or dark brown colored.



Q1: In the picture in the right, which one is the bear, and which one is the human? Q2: Has the person left the bear safely? Q3:What did the person do?



 \succ Do not run away! \succ Do not face the bear with your back! \succ You must stand face to face with the bear to make yourself look taller. Then, you can step back slowly.



If the bear makes an attack: You can use bear sprays \succ Do not play dead with a black bear! Fight it with all your might. \succ Squat and protect your head with your hands. Let the bear scratch the bag until it stops attacking.

Now, what will you do if you meet a bear in the wild?

TUNDRA



- Lichen, herbs, and small shrubs that resist the cold.
- Cold and long winters
 with short and cool
 - summers.
- Permafrost below the soil.





QI:Where is the picture on the left taken? Coniferous forest or deciduous forest? Why? Q2:What type of climate is the reindeer on the right living in?





QI:What is the reindeer doing in the picture on the right? Q2:What other values do reindeer have in the perspective of a human?



- Reindeer and human: uses
 for meet, dairy products,
 and transportation.
- Ancient human civilizations

 and some tribes nowadays
 hunt reindeers. They
 preserve amulet, artworks,
 and bones.



- Gather reindeers together to avoid separation.
 Stay away from dangerous
 - environments, like predators and risky landscapes.
- Adjust the speed and direction of migration according to the new camp.

TASKS

- I. Snap a screenshot of videos about reindeers and share what you have seen.
- 2. Find a book, movie, or documentary about animals. Post its cover and poster into the group chat, and prepare to share it in the next activity.

谢谢大家!