

Johnny Morris
WONDERS OF WILDLIFE

**NATIONAL MUSEUM &
AQUARIUM**

Presents The

Arctic & Antarctic

Vocabulary

Adaptation: A characteristic or trait that allows an organism to be better suited for survival and reproduction within a given habitat.

Biodiversity: When many different types of animal and plant species live in a particular ecosystem or habitat.

Biome: Area on earth that have similar climates, plants, and animals. Biomes are defined by their average precipitation rates and temperature.

Climate: The regular prevailing weather and temperature conditions of an area over a long period of time.

Climate Change: Refers to the rapid increase in global temperatures. It is the result of an increase of carbon dioxide and other greenhouse gases in the atmosphere from the burning of fossil fuels.

Desert: A barren area of landscape where little precipitation occurs and, consequently, living conditions are hostile for plant and animal life.

Ecosystem: A community of living organisms in conjunction with the nonliving components of their environment, interacting as a system.

Endangered Species: A species of animal or plant that is in danger of going extinct.

Erosion: The process of wind, water, or other natural forces breaking down something over a period of time.

Extinction: Event when an entire species dies out and no longer exists.

Food Web: The mapping of the flow of energy through an ecosystem: who eats what, and who gets energy from whom.

Habitat: The natural home of a living thing.

Marine Animals: Any of numerous animals inhabiting the planets oceans and seas.

Organism: An individual living thing.

Precipitation: Water vapor that has condensed to fall to earth as rain or snow.

Survive: To continue to live or exist, especially in spite of danger or hardship.

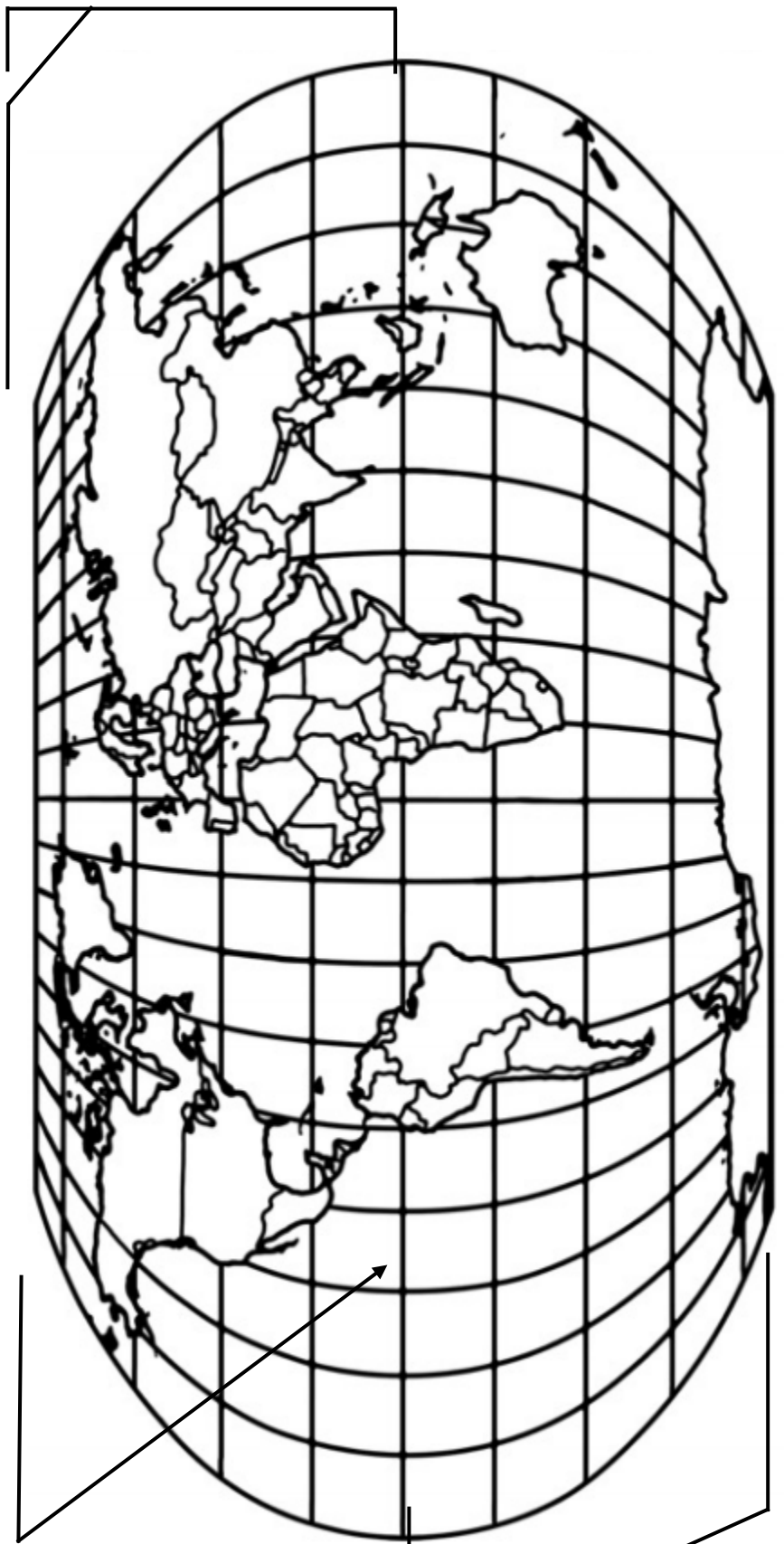
Terrestrial Animals: Animals that live predominantly or entirely on land, as compared with aquatic animals, which live predominantly or entirely in the water.

Student Name:

Where in the WORLD!?

Color in on the map the regions of the Arctic and the Antarctic can be found.

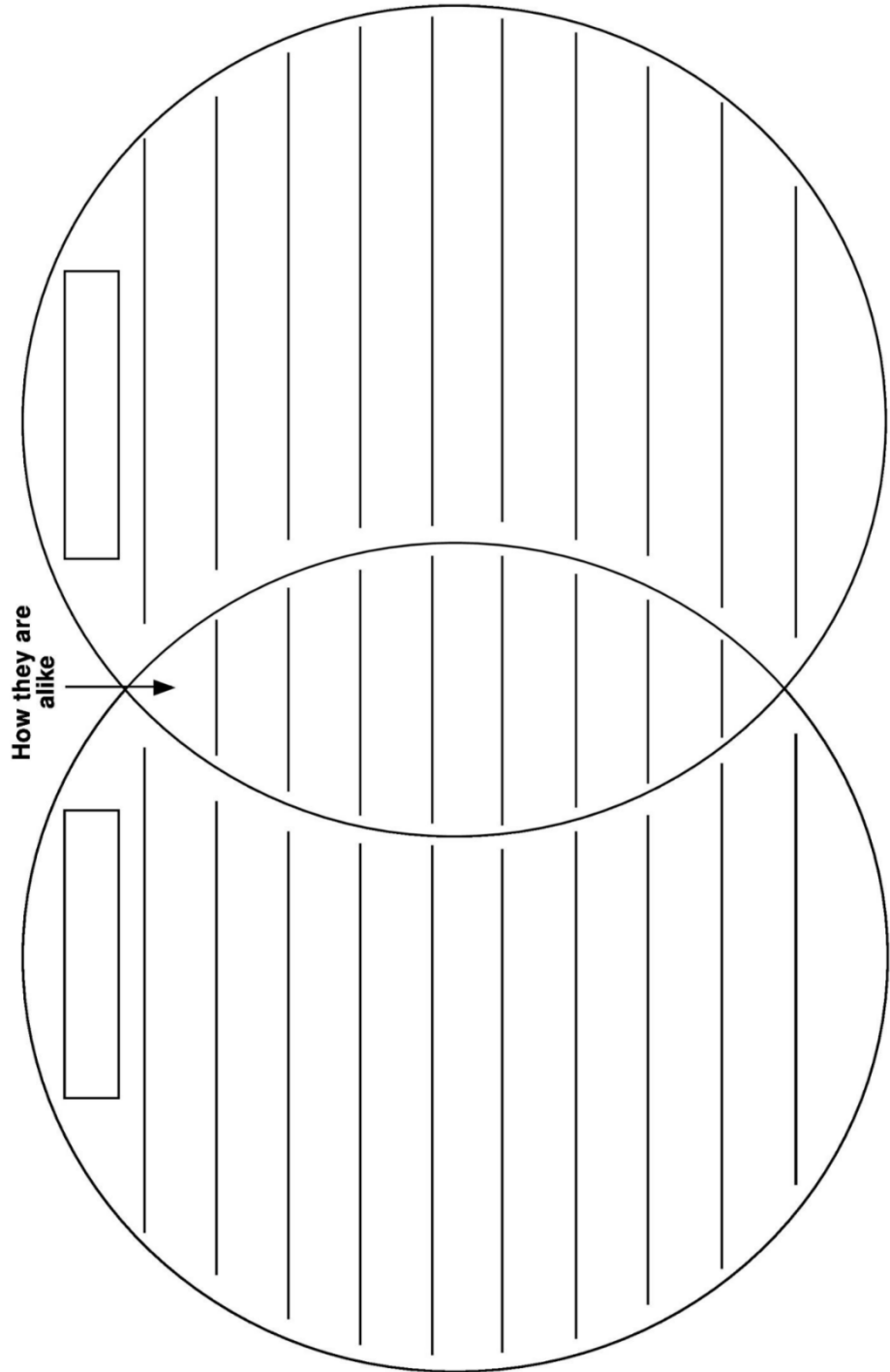
Additional Directions: Label both hemispheres and the equator



Student Name:

Arctic vs Antarctic

In the bubbles below, label one "Arctic" and the other "Antarctic". In the middles you will write down similarities that they share. In their bubbles, write down facts that are specific only to them.

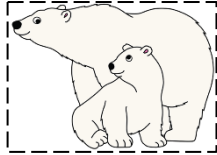


Identification T Chart

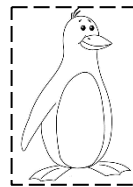
Name: _____

Animals

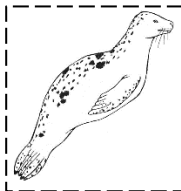
Polar Bear



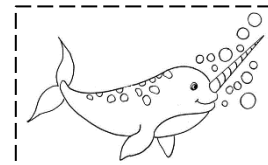
Gentoo Penguin



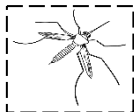
Leopard Seal



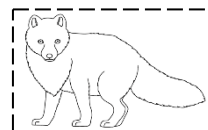
Narwhal



Antarctic Midge



Arctic Fox



Traits

Thick fur to keep warm, small ears to conserve heat, preferred meal rabbits

White appearance for camouflage on snow & ice, thick warm layer of fat & fur

Stands completely still to hibernate during winter, its blood keeps it from freezing, only insect that lives here

Thick feathers that trap air for insulation underwater, modified wings that act as “flippers” for swimming

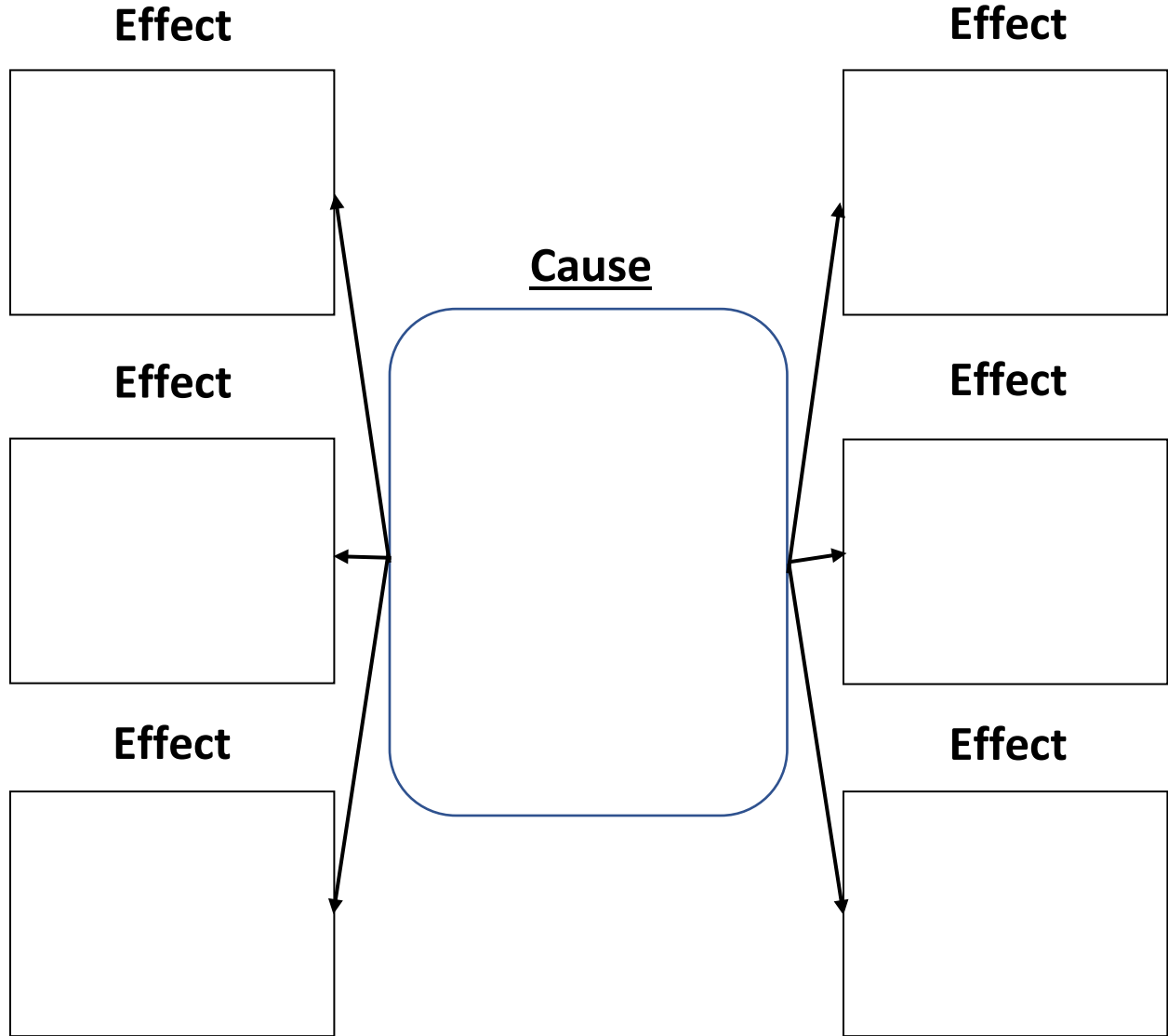
Long protruding “tusks” with millions of nerve endings for finding food and warding off rivals

Spotted streamline bodies for speed underwater, curved teeth perfect for hunting penguins

Cause & Effects

Name: _____

Date: _____

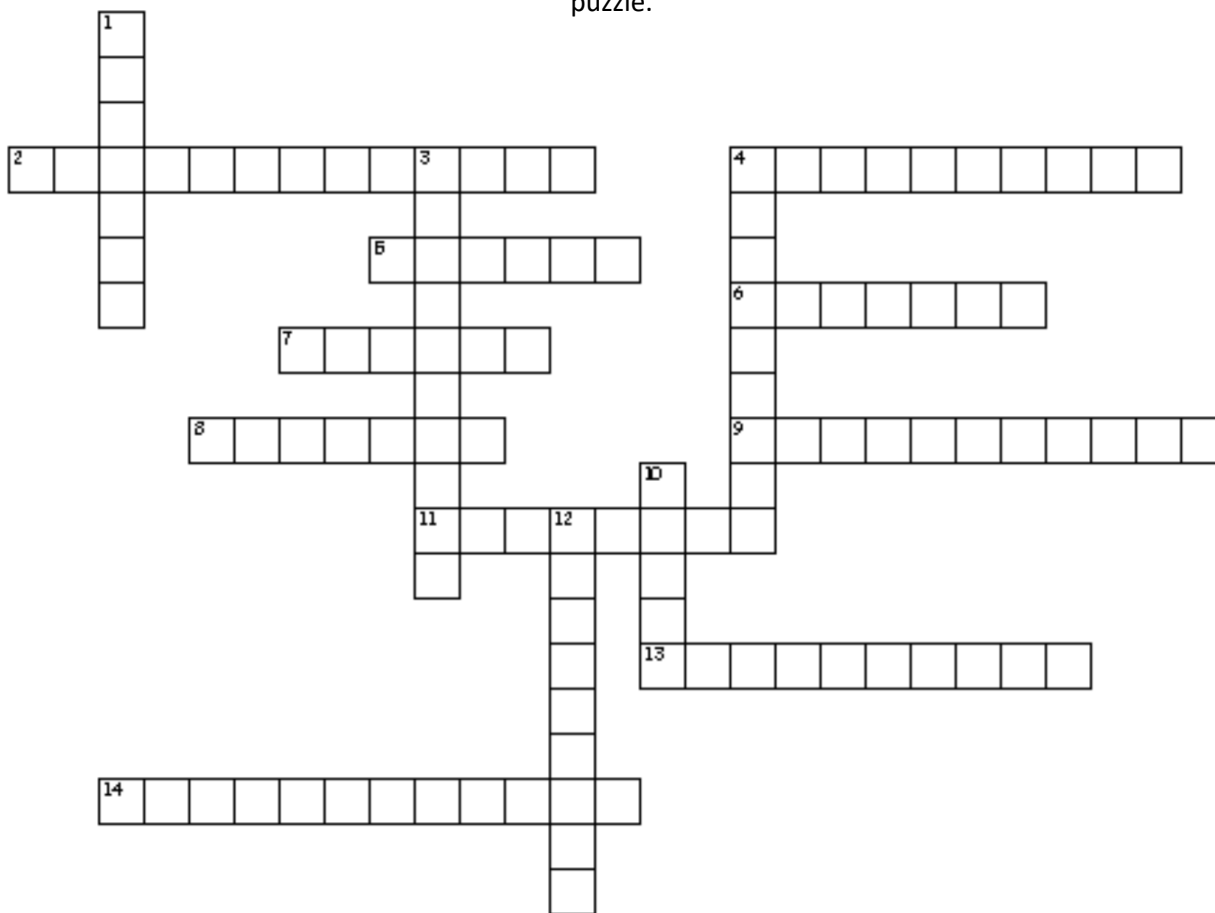


What can you do?

Thin Ice Crossword

Student Name:

Directions: Like a polar bear navigating the pack ice of the Arctic, you will need to use your knowledge obtained today to navigate your way around the tiles and complete the puzzle.



Across

2. the change in global temperatures
4. when an entire species dies out
5. type of animal that dwells in the oceans and seas
6. to continue to live in spite of danger or hardship
7. located in the northern hemisphere
8. the regular weather and temperature for a region
9. type of animal that primarily dwells on land
11. an individual living thing
13. is a category a species is placed in if they are in danger of going extinct
14. many different plant and animal species living together

Down

1. the natural home of a living thing
3. a trait that aids in survival
4. a community of living organisms
10. area with similar climate, animals, and plants
12. located in the southern hemisphere

Polar Word Search

Student Name:

C W V S N D U F S A Y V B V S
Y K H E U W S N Z Z Y W P U S
N G I A I G I A R C T I C N N
C J V L L U A M R R Q N O J J
I I H S G E W X A R D W Q U H
L X T N P K S E T A G L A C E
M Y E C O E X C V E S N O P U
G P A T R H S I F B H R E C Q
G L C E X A W Z L R K P M B H
X O U O C K T O R A T T S Y Y
K K H A Z G A N D L Z L A R A
U D E F G U K F A O P Y P Z L
D D F I Y K S I P P R I P Y Q
U K K Y B H P X Y R U S Q H W
S Z K N A M V O G C M O R S A

ANTARCTIC
FISH
POLARBEAR
WHALES

ARCTIC
ICE
SEALS

COLD
PENGUINS
SNOW