



## ANTARCTICA QUIZ- ANSWERS

1. How much of Antarctica is covered with ice? **98%**
2. What is one of the biggest threats facing the future of Antarctica? **Climate change-global warming. Also the hole in the ozone layer is killing phytoplankton.**
3. What is the Antarctic Treaty? **Treaty signed by many countries to work together to protect Antarctica.**
4. What is the average temperature in the winter? **-76°C**
5. Why are penguins black and white? **Camouflage against predators from above and below.**
6. Give two adaptations that penguins have to keep warm. **Oily feathers that are packed together very closely, each feather has an extra part which they can puff up to keep them warm. Penguins also have a layer of fat under their skin.**
7. Explain one threat to penguins. **Global warming, oil spills, competition with humans for food.**
8. How tall is the largest penguin? **3.7 feet**
9. What two species are lichens made of? **Fungi and algae**
10. What does the algae part of lichens do? **Provides food by photosynthesis**
11. Give three uses of lichens. **Dyes, medicines, food, perfumes, scent for soaps, indicators of pollution, dye for litmus paper.**
12. How are lichens able to survive in Antarctica in areas where nothing else can? **Because of the partnership between the fungi and algae, also some lichens can create their own sunscreen.**
13. What is another name for a tardigrade? **Water bear**
14. How far away is the nearest tardigrade likely to be from you right now? **Less than 10m**
15. How big is a tardigrade? **0.3-0.5mm**
16. What is so special about tardigrades? **They are able to survive in dry state for up to 75 years and then come back to life with a drop of water. They are virtually indestructible.**
17. Why don't humans live in Antarctica permanently? **Conditions too extreme.**
18. Why do humans wear layers of clothes in Antarctica? **Trap layers of insulating air.**
19. Give two things that scientists are studying in Antarctica. **Climate change, wildlife, ozone layer, meteorites, impacts humans having on environment, effect on humans of spending time in Antarctica.**
20. Do you think that tourists should be allowed to visit Antarctica? Give a reason for your answer. **Use as discussion point. No right or wrong answer as long as well argued.**

