



Teacher Answer Guide:

17 Questions at 9 learning stations

TEACHER SUPPORT SWAY SITE WITH COORDINATES, ANSWERS AND RESOURCE PREVIEWS

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Station 1: Northern Lights

Question 1: What is the first name of your Arctic Guide?

Answer: Aput

Question 2: What is the official name for the Northern Lights?

Answer 2: Aurora Borealis

Station 2: Desert Timberline

Question 3: What is the name of the northern line where trees seemingly stop growing?

Answer: Desert Timberline

Question 4: Why do trees stop growing at a certain northern point?

Answer: The soil becomes too dry to support tree growth

Station 3: Meet the Locals

Question 5: Name three possible career opportunities mentioned by "Local 1"

Answer: Teaching, Mining, Military

Question 6: What is the name of the Canadian million-dollar award-winning teacher seen in the "Local 1" Teaching Video?

Answer 6: Maggie MacDonnell

Question 7: What year were diamonds first found in the Canadian Lac de Gras?

Answer: 1991

Question 8: What is the name of the Arctic mineral material that diamonds are found in?

Answer: Kimberlite

Question 9: According to "Local 2" how much of the World's oil is in the Arctic?

Answer: 5.9% or 90 Billion Barrels

Question 10: According to the gold rush video shown by “Local 2” How many times heavier is gold than water?

Answer: 19 times heavier

Question 11: In the Global Seed Vault Video shown by “Local 3,” What is the first name of the Norwegian engineer that shows the host of the video around the vault where 3 million species of seed are stored?

Answer: Bente

Station 4: Diamond Mine

Question 12: What is the name of the diamond mine where you got a chance to mine?

Answer 12: Diavik Diamond Mine

Station 5: Brain Shrinking

Question 13: Why do scientists think our brains shrink during extended visits to the Arctic or Antarctic?

Answer: The lack of stimulating sights cause our brains to shrink.

Station 6: Ice Fishing

Question 14: What is the first name of the local ice fishing legend shown to you in your Guide’s video?

Answer: Sara *Annanack*

Station 7: Melting Glaciers

Question 15: Watch the first few minutes of the Guide’s Climate Video. In what year do some researchers predict the Arctic will be ICE FREE in Summers?

Answer: 2050

Station 8A&B: Arctic Sovereignty Land and Sea

Question 16: After your underwater adventure who would you say owns the North Pole according to research?

Answer 16: A mixture of Russia, Denmark and Canada is most likely.

Station 9: Igloo

Question 17: After meeting the local igloo creator and watching her video on how igloos are made, what is the name of the special knife used to make igloos?

Answer 17: Pana or Snow Knife