



EXPLORATION WORKSHEET "JOURNEY"

9th/10th GRADE

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Name: Meeting point:

Go on an exploration tour along the 8th longitude and get to know the Earth's different climate zones. Have a good journey!

ISENTHAL, SWITZERLAND

Which climate zone are you in now? Describe the typical characteristics there.

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- 1.) What signs are there in Isenthal of climate change?
- 2.) How does that influence the dairy farmers' work?
- 3.) Why are glaciers important for the Earth?

SENEGHE, SARDINIA

Which climate zone are you in now? Describe the typical characteristics there.

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- 1.) Find the cork oak tree. Which increasing problems do the inhabitants on Sardinia have to deal with as a result of global warming?
- 2.) How does tourism influence this development?

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KANAK, NIGER

Which climate zone are you in now? Describe the typical characteristics there.

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- 1.) Listen to the old lady on the stairs and find out how life in the Sahara has changed.
- 2.) What do the people in the desert have to do to get water?
- 3.) Think about what you use water for every day and how you could save some.

IKENGE, CAMEROON

Which climate zone are you in now? Describe the typical characteristics there.

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- 1.) On the stairs from Niger to Cameroon you can see how the landscape changes. Explain the causes for the aridity in the Sahara and the humidity of the rainforests.
- 2.) How many hectares of rainforest per hour are deforested annually on Earth? In which regions of the Earth are the rainforests particularly endangered?
- 3.) Consider together how we in Germany contribute to this development.

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QUEEN MAUD LAND, ANTARCTICA

Which climate zone are you in now? Describe the typical characteristics there.

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- 1.) Describe the changes in the Antarctic ice sheet.
- 2.) Living and researching in Antarctica poses many risks for the scientists. How do the researchers survive on the Earth's coldest continent?

SATITOA, SAMOA

Which climate zone are you in now? Describe the typical characteristics there.

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- 1.) Explain how Samoa's sensitive eco-system is endangered by waste.
- 2.) Go to the aquariums. The diving instructors Vaniah and Foua talk about the impacts global warming has on the ocean. What do they observe?

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GAMBELL, ALASKA

Which climate zone are you in now? Describe the typical characteristics there.

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- 1.) Go to the whale fluke and find out what the term "polynya" means. Describe how the polynya is influenced by climate change and which impacts this has on whaling.
- 2.) Have a look at the changes in the Arctic sea ice and describe the impacts.

LANGENESS, GERMANY

Which climate zone are you in now? Describe the typical characteristics there.

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- 1.) What is meant when they speak of "Land unter" on Langeneß?
- 2.) Why does the "Land unter" alarm occur far more frequently these days than previously?
- 3.) Consider which other stations on the journey are affected by the rise in sea level.