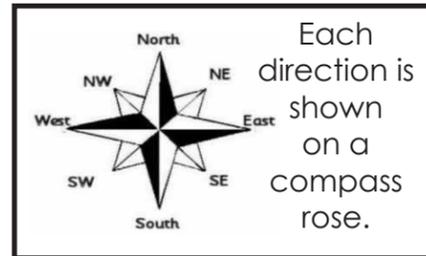


# DISCOVERING DIRECTIONS



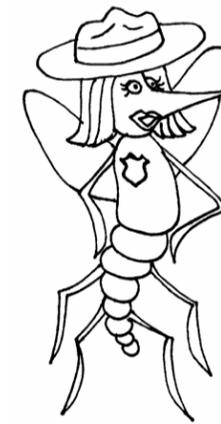
Maps have four cardinal directions: **NORTH, SOUTH, EAST, AND WEST**. Between each cardinal direction are inter-cardinal directions. They are northeast (NE), southeast (SE), southwest (SW), and northwest (NW).

Katy is camping in Gates of the Arctic and decides to take a hike. Mark her journey on the map and answer the questions below by using the compass rose.

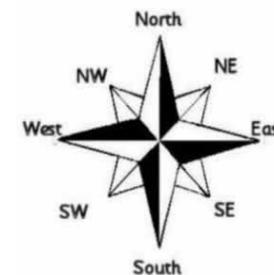
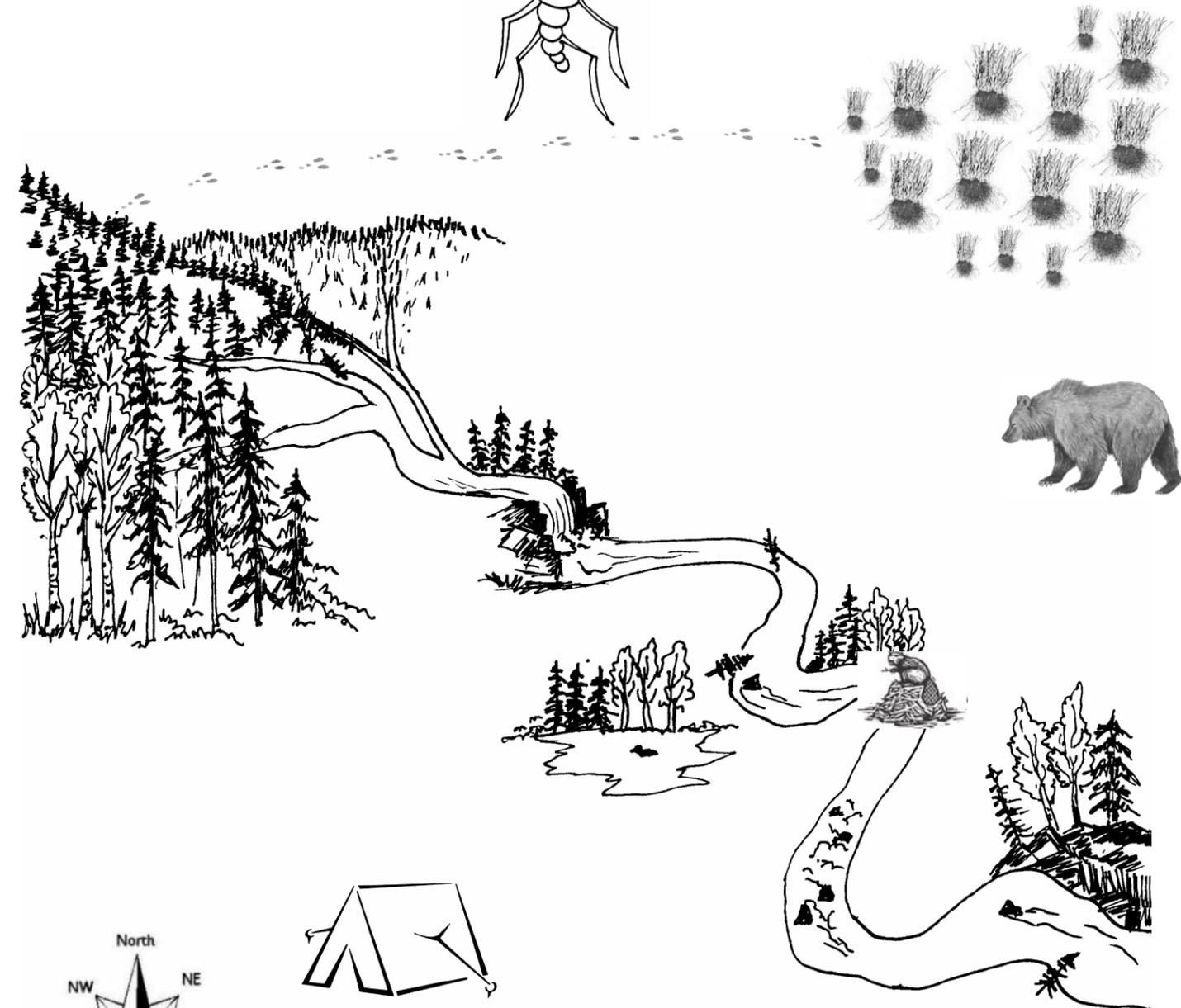


1. Katy tells her family where she plans to hike and when she will be back. She begins from camp. **Draw a star at the tent to mark her start.**
2. First, Katy heads north to the headwaters, or beginning, of the nearby creek. **Write a capital H for headwaters here.**
3. Next, Katy goes west into the boreal forest. **Draw a tree where Katy enters the woods.**
4. Katy finds a set of snowshoe hare tracks and follows them. **In which direction do the tracks lead her away from the forest?** \_\_\_\_\_
5. Katy stops at the edge of the tussock field. **Place a capital T where Katy stops.**
6. Then, Katy remembers a beaver dam on the creek and goes south to inspect it. Halfway between the tussock field and the beaver dam Katy stops because she sees a bear. **Write a capital B here.**
7. It is time for Katy to head back to meet her family. She hikes back to the headwaters of the creek. **Draw a circle around the headwaters.**
8. From the headwaters, Katy walks straight toward the pond to meet her family for dinner. **Which direction is she going?** Hint: This direction is between two cardinal points. \_\_\_\_\_
9. Katy decides to head back to the tent for bed. **In what direction does Katy go to end her day's journey in Gates of the Arctic?** \_\_\_\_\_

In Alaska, you can travel a very long way without seeing a sign, person, or path to help you find your way. If you are traveling in Alaska's backcountry you should have a map and know how to read it!



A tussock is a thick clump of grass held together by its roots. They are found in wetlands and tundra and are very hard to walk through.



Name: \_\_\_\_\_