

Tundra Biome—Paleolithic Lifeways

First Hour

Great Ideas	
Idea	Ms. Fauson's Questions
Lean-to shelter; use branches and sticks from birch trees, and insulate with lichen and moss. Use moss as a "carpet" at the bottom of the shelter to prevent cold from seeping up for the ground.	What tools would you need to make in order to build this shelter, and how would you make them? Would moss be a sufficient carpet in the winter?
Make spears from birch branch; use this spear for hunting.	Would a sharpened stick be durable and strong enough to get through a herd animal's fur and skin?
Winter, melt snow for drinking.	How do you melt the snow? How do you build your fire?
Use animal tendons to tie toolheads to shaft of the tool.	
Hides for clothing.	Would hides be warm enough in winter? What tools would you need to make clothing?
Make pouches out of animal hides and ribcages .	
Use animal stomachs or bladders as canteens.	
Use the horns from a musk ox as a knife handle.	
Use birch trees/branches to make a fire.	
Use animal hides to insulate a shelter.	Would hides be warm enough in winter?
Not-So-Great Ideas	
<p>Make a bowstring out of deerhide—would the deerhide be elastic enough for a bowstring?</p> <p>Dig a hole to trap animals—how would you dig through permafrost?</p> <p>Sharpened sticks as spears—need to have a spearhead made out of stone (a stick would not make it through animal skin/fur).</p> <p>Use shrubs as an insulator.</p> <p>Scavenging—as animals rot they could carry disease.</p> <p>Use lemming pelts to make hats, mittens, etc.—rabbit pelts would be much better because they would be warmer and larger.</p> <p>Try to domesticate an Arctic fox as a pet.</p> <p>Strangle an animal to kill it.</p>	

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Third Hour

Great Ideas	
Idea	Ms. Fauson's Questions
Hunt migratory birds in the summer.	How are you going to hunt these birds? What tool would you make to kill them, and how would you make that tool?
Use the bladders of animals to store water (canteen).	
Hunt musk oxen—it will yield a lot of meat; hunt with a bow and arrow.	How would you make the bow and arrow? Is there another hunting tool that might be more effective on a musk ox?
Look for caves, since the terrain is rocky.	
Build a shelter in a stand of birch trees.	How are you going to build the shelter? Out of what? With what tools? How would you make these tools?
Get water from bogs and marshes in the summer.	
Melt snow or ice to get water in the winter.	What would you put the snow in to hold it over the fire to melt it?
To build a fire, use sticks/branches from birch trees and strike rocks together (flint).	
Use dried moss and leaves to build a fire (kindling).	
Wear animal pelt as camouflage to sneak into a herd.	
Not-So-Great Ideas	
Use bamboo to make a bow and arrow—DO NOT DISCUSS THINGS THAT ARE NOT NATIVE TO THE BIOME. Kill a musk ox by stabbing it with a rock—rocks aren't tools until you make them into tools. Throwing rocks is not a great form of hunting, either. Use cobwebs to make a bowstring. Dig a hole in the ground to trap animals. HELLO? PERMAFROST!	

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Fourth Hour

Great Ideas	
Idea	Ms. Fauson's Questions
Build a lean-to or log cabin; use pine needles or leaves for insulation.	What are you going to use to make the frame of the shelter? What tools would you need to build this shelter? How would you make these tools?
Collect water in a vessel from precipitation (rain or snow).	How would make this vessel (materials, tools)? How would you melt the snow in the winter?
Use sinew to bind toolheads to their shafts or handles.	
Try to find shelter first (cave).	
Cut down birch branches with a handaxe and use them to frame a lean-to or teepee. Use leaves/mud to insulate the shelter.	
Use all parts of the animal.	
Use a birch branch for a spear shaft and shape a rock into a spearhead.	
Gather lichen , heath, and moss as food.	
Make clothing from pelts and hides sew them together with bone needles and an awl, and use sinew for the thread.	
Hunt reindeer, caribou, and Arctic hare.	
Not-So-Great Ideas	
<p>A water pitcher made of clay pottery. (No pottery in the Paleolithic—heavy and breakable, not ideal for nomadic people.)</p> <p>Bathe in a marsh—marshes are a bit mucky for bathing.</p> <p>Domesticate animals. (Very little domestication in the Paleolithic.)</p> <p>Eat raw meat.</p>	

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Fifth Hour

Great Ideas	
Idea	Ms. Fauson's Questions
Melt snow over a fire in the winter for drinking water. Make a bowl out of stone or clay to set over the fire.	How will you hold the bowl over the fire? What will you use to hold it up? What tools would you use to hollow out the bowl? How would you make those tools? How are you going to build your fire?
Use animal bladders as canteens.	
Collect birch branches to make a lean-to. Cover it with animal furs and leaves to insulate.	Would animal furs as insulation be too warm in the summer months?
Make a bow with wood from the birch trees; use the tendon from an animal as bowstring.	How would you make arrows?
Trap animals; you can reuse the device for trapping, and traps are small and easy to carry with you.	How are you going to make the trap? What animals would you trap (be specific)?
Use animal hides to make shoes.	
Use snow and ice as a refrigerator.	
Use antlers to make needles and awls. Use tendon as thread.	
Make coats and blankets out of musk ox pelt.	
Not-So-Great Ideas	
<p>Clay is breakable and heavy—not great for nomads.</p> <p>Shelter in a canyon—ONLY DISCUSS THINGS THAT ARE IN THIS BIOME.</p> <p>During the summer, do all your hunting and gathering and store everything for the winter—would be hard to transport and meat will spoil in the summer.</p> <p>Make the heads of hunting tools out of bone—stone is more durable.</p> <p>Make boats to travel on bogs and marshes—bogs and marshes are not navigable in boats.</p>	

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Sixth Hour

Great Ideas	
Idea	Ms. Fauson's Questions
Use tendon to make a bowstring; use a musk ox tusk for the bow curve.	How are you going to make arrows?
Use animal pelts (caribou) as blankets.	What tools would you need to skin the animal and tan the hide of the pelt? How would you make these tools?
Make a lean-to with birch branches.	How would you insulate your lean-to?
Use dried, fallen birch branches to make fire.	How would you start the fire?
Use moss and animal hides to insulate shelters.	Would this be warm enough insulation in the winter?
Use animal hides and pelts for clothing.	How would you make the clothes? What tools would you need and how would you make these tools?
Gather water from the marsh for drinking.	
Use animal bladders to hold water.	
Look for caves; found shelter is easier than making shelter.	
Not-So-Great Ideas	
Use leaves for blankets. Use grass as bowstring—it's going to break, and THERE IS NO GRASS IN THIS BIOME. Use antlers as spears.	