

# **Blackhawk Area Council Klondike Derby 2021**



## **January/February 2021 Leaders Guide**

Revised on 1/23/2021



# KLONDIKE DERBY

BLACKHAWK AREA COUNCIL  
BOY SCOUTS OF AMERICA

Klondike 2021 is a test of Scout skills and creativity delivered in a blended format. The event brings you some Scout favorite activities with a twist (think fire building but with marshmallows) along with new STEM-themed challenges (think igloo building but with ice cubes).

## HOW IT WORKS

- Teams compete in Klondike-themed activities on their own thru end of February; units may register multiple teams
- Teams receive an event ribbon, scorecard, and Leaders Guide that details activity setup and scoring
- Each team will assign an adult as the official judge
- Teams set up each activity on their own (activities are designed to use basic materials found in units inventory) or teams may choose to utilize resources at one of the council locations
- Teams have until 5:00 p.m., Sunday, February 28 to complete all activities and submit their scorecard with any appropriate photos, videos and documents.  
Details on submission process, including location, will be provided at a later date.

## AWARDS

Top teams in each activity will be awarded per district; top teams for the overall event will be awarded

## EVENT CONTACT:

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## Dining Fly Mitten Assembly

**Description:** A winter Chinook is approaching quickly. In order to keep supplies dry, a dining fly must be setup. All team members must wear mittens (not gloves) at all time during setup of the dining fly. Time is of the essence.

**Setup:** Use a 10'x10' tarp (minimum size) for the dining fly, with a ridge line, two 6' poles (at minimum), 6 stakes (at minimum) with down ropes to hold the tarp up.

**Scoring:** Team will be timed on setup of dining fly. Time of setup starts when all materials are assembled, but setup has not started. Submit time and a photo of the dining fly.



## Don't-Spill-The-Medicine Sled Run

**Description:** Transport a 32oz Nalgene bottle of a lifesaving “medicine” to a secured location 100-yards away using your sled. The container must remain open and be filled with water up to the 32oz mark. This activity is a blend of speed and finesse.

**Setup:** Plot a straight course of 50-yards. All youth must pull and/or push the sled together past the 50-yard line and turn around back through the starting line. The Nalgene bottle must be filled to the 32oz line, lid left unopened, secured and transported in the sled at all times.

**Scoring:** Timer starts when the first youth crosses the starting line and stops after the back of the sled crosses the starting line on the return trip. Timer continues throughout the course even if the “medicine” spills over. Please submit the time and amount of water remaining in the Nalgene bottle.



## First Aid Scenario

**Description:** Your team sets out on a winter hike with temperatures hovering at 15°F, with a 10 mph wind factor. The activity is in a National Park/Forest area of large hills, mixed hardwood and pine forest. The unit has hiked in 3-4 miles, and has gathered firewood for a hot lunch and hot chocolate. While some scouts were sledding, one scout has veered off course and slammed into a tree. The scout is knocked unconscious. Upon immediate examination, the scout has facial injuries, including abrasions and a severe cut above the right eye. The scout's left forearm is bent awkwardly, not in a natural form. Treat and transport the scout to the fire area (about 20-feet away). The sled was damaged in the crash so the team needs to figure out another way to transport the injured youth safely. Be sure to treat the injured scout completely prior to and during transport.

**Setup:** One scout will serve as the injured youth. The remaining scouts will utilize materials in their sled to treat the injured youth. Since the sled was damaged during the crash, your team will need to utilize other materials to come up with a secure and stabilizing method to transport the injured youth.

**Suggested Materials:** Hiking Sticks – Minimum 2; 28-30" x 1 ½ " Wood pieces; Neckerchiefs or Triangle Bandages 1 to 2 person; Rope for Lashings – Min 10 Pcs; Blanket/Sleeping Bag – 2

**Scoring:** Your team will be judged on timing of treatment and transport, as well as the quality of treatment. Timer will start at the point of "crash" and conclude when the injured youth is safely transported to the fire area. Please provide time, and a video explanation of treatment or series of photos with descriptions. The video/photos of the treatment are to be captured after the conclusion of this activity so it does not disrupt the activity time.



## Ice Cube Igloo Build

**Description:** An igloo built out of ice cubes can be a fun way to challenge your engineering and science skills (not to mention your patience). Construct a model igloo using ice cubes and the materials provided in setup.

**Setup:** Prepare 50+ ice cubes in trays ahead of time. You will need full- and half-size cubes and some snow to pack into any gaps. Start with assembling the foundation which should take approximately 12 ice cubes. Use salt to melt cubes and fuse.

### Materials

Water, Ice cube trays (preferably square/rectangular with little slope) - prepare 50+ ice cubes  
Salt, Cookie sheet if inside to build on, blender, Access to freezer or outdoors, Snow (optional)

**Scoring:** Quickest time to build an ice cube igloo; measure height and bottom diameter. Start the timer once all materials are gathered and ready for construction. Submit time, measurements and photo of igloo.



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## Ice Decoding

**Description:** Accurately decode a message of a very lucrative find on the Klondike territory. The message will be relayed to your team in sign language. This activity will be delivered to your team on a later date. Please stay tune for more details.

**Setup:** More details to follow.

**Scoring:** Accuracy and timing of decoding the message. More details to follow.



## Ice Cube Lift

**Description:** Lift up as many standard-sized ice cubes as you can by fusing them onto a 16-inch long string/twine and hold for five-seconds.

**Setup:** Prepare in advance standard-sized ice cubes. Place desired amount of ice cubes down on a cool surface. Place a wet string/twine, 16-inch in length, on as many ice cubes as the team desires, and fuse the string/twine onto the ice cubes using salt. Lift the string/twine up into the air and hold for five-seconds.

### Materials

Ice, Salt, String/Twine, water

**Scoring:** Count the number of ice cubes on the string that survived the five-second lift. In case of a tie, we'll use timing as a score. Therefore, please start timing the activity once the team begins placing ice cubes on a flat surface. Be careful, pulling too quickly may result in string separating from ice cubes. Timer stops once the ice cubes on a string have been suspended in the air for five seconds. Any ice cubes that fall off after five-seconds may be included in the final count





## Marshmallow Roast Fire Building

**Description:** It can get cold out on the Klondike. Building a warm fire is a sure way to lift team spirit. Using all NATURAL materials and matches, build a fire to fully ignite a standard-sized marshmallow in flames that is suspended 12 inches above the ground.

**Setup:** The use of natural materials means that no propellants, liquid or dry, butane type lighters, may be used. The marshmallow should be suspended 12 inches above ground using a horizontal slender twig or bamboo skewer attached to two vertical poles/sticks on its ends. The fire is to be built “from scratch”, meaning no previous fire lays may be used, using materials in your sled. If necessary, your team may search for additional natural materials around the area to build the fire.

**Scoring:** Quickest time to engulf marshmallow completely in flames. Marshmallow should have a burnt layer to stop timer. Timing starts prior to gathering materials. The marshmallow should be setup prior to timing.



## Snow Blind Obstacle Course

**Description:** The Klondike territory can be treacherous to navigate during a winter whiteout storm. Each Scout will take a turn blindly navigating a 50-yard obstacle course full of turns, ups and downs, with the help of a seeing guide sharing verbal instructions.

**Setup:** The course shall be 50-yards in total length and the path no longer than three feet wide. Each scout should take turns navigating the course blindfolded, while another scout shares verbal instructions.

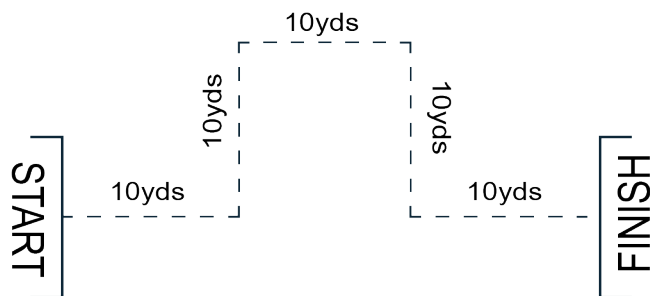
The course should include each of the following obstacles (leader determines where to lay obstacles):

One obstacle to climb over (example: hiking staff on 2 chairs)

One obstacle to crawl under (example: hiking staff on 2 chairs)

Two objects on the ground at separate places to jump over

Course Layout:



**Scoring:** Average time of each Scout to navigate the course is the team's overall time total. A two-second penalty is added to any Scout's time for every object touched on the course.



## Snow Shoe Relay

**Description:** Run a relay of scouts putting on pair of snow shoes over a 30-yard course. First scout travels 30-yards, then removes the snow shoes to give to the other scout to wear going back 30-yards, and on and on. Continue until 8-runs have finished the 30 yard course.

**Setup:** Secure a pair of snow shoes or build one set of snow shoes from an online design (unit choice). Setup a straight line course of 30 yards, with markers at each end. Divide team in half. In the event of a team less than 8 scouts, then 1 or more scouts will need to repeat until 8 runs have been completed.

Snow Shoe Ideas:

<https://scoutlife.org/hobbies-projects/projects/23375/make-your-own-snowshoes/>

<https://www.instructables.com/Gorilla-TapeGorilla-Glue-Snowshoes-from-Scratch/>

**Scoring:** Quickest time to complete relay as a team. Timer starts when the first scout begins to remove footwear to put on snow shoes.



## Winter Campout Meal Plan

**Description:** Plan a nutritious and energy-packed menu for a team of 8 youth and 2 adult leaders set out on a winter campout weekend of 3 days, and 2 nights. Menu considerations must meet USDA nutritional guidelines, and also meet cold weather energy needs of the unit.

**Setup:** Meals planned must cover: Friday - Cracker Barrel; Saturday – Breakfast, Lunch, Dinner; Sunday - Breakfast

**Scoring:** Budget costs to create a satisfactory menu, at a conservative cost. Submit detailed menu plan, including an itemized shopping list with costs.

[Myplate.gov](https://www.myplate.gov)



## Winter Nature Hunt

**Description:** Locate, obtain and submit a picture of the following items from the Nature Scavenger Hunt. Scouts may work independently with their families or as a team to plan on searching out the items listed.

1. White Oak Leaf
2. Red Oak Leaf
3. An Acorn from any oak tree
4. White Pine Cone
5. Winter Cress Leaf
6. Bird Feather (found in “wild”)
7. Tuft of Animal Fur
8. Wild Rose Hips
9. Worm Bulb in Plant Stem
10. Black Walnut Nut

**Setup:** None

**Scoring:** Submit one photo showing all items collected. Each item should be identified with the corresponding number on the list. Scoring is based on the number of items collected and submitted.



## Winter Sled Design

**Description:** Time to show off your sleds! Sleds will be judged in two categories: Traditional Style and Open Design.

Traditional sleds may not use downhill, cross-country skis, sheet metal, or other materials in the construction, but be built using lashings, pegs, natural materials.

The Open Design may be of any thematic design materials appropriate to Scouting principles (this category is especially appropriate for those units without a traditional Klondike sled).

Sleds for each category must also hold the items needed for the events of the Klondike.

**Setup:** your sled and your chosen materials

**Scoring:** Scoring based on Traditional Style and Open Design; teams must submit photos of their sled and provide a materials list.



# Scorecard

**Dining Fly Mitten Assembly:** Time \_\_\_\_\_

**Don't-Spill-the-Medicine Sled Run:** Time \_\_\_\_\_ Water Amount \_\_\_\_\_

**First Aid Scenario:** Time \_\_\_\_\_ (video/photo submission of treatment explanation)

**Ice Cube Igloo Build:** Time \_\_\_\_\_ Measurement \_\_\_\_\_ (photo submission)

**Ice Decoding:** Time \_\_\_\_\_

Message \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Ice Cube Lift:** Amount of Ice Cubs \_\_\_\_\_ Time \_\_\_\_\_

**Marshmallow Roast Fire Building:** Time \_\_\_\_\_

**Snow Blind Obstacle Course:** Time \_\_\_\_\_

**Snow Shoe Relay:** Time \_\_\_\_\_

**Winter Campout Meal Planning:** Submit menu with detailed plan and shopping list

**Winter Nature Hunt:** Submit photo of collected items

**Winter Sled Judging:** Submit photo of sled design