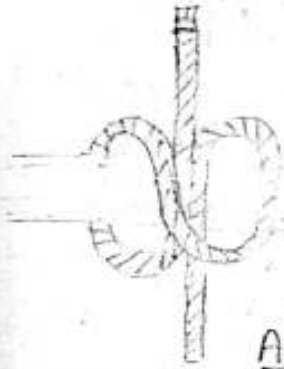


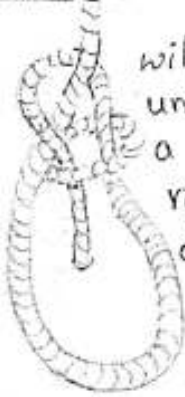
### 4) Clave Hitch :-



Clave Hitch is a good binding knot. However as a hitch it should be used with caution because it can slip or come undone if the object it is tied to rotates or if constant pressure is not maintained on the line.

Advantages :- The Clave hitch is easy to tie and untie, even after being weighted. The Clave hitch is easy to adjust so that you can either lengthen or shorten your tie-in point to the anchor without untying.

### 4) Bowline :-



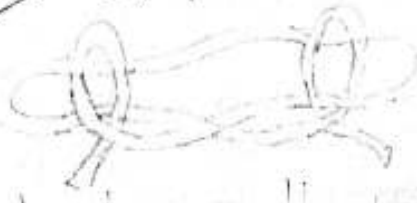
The Bowline forms a secure loop that will not jam and is easy to tie and untie. Hence Bowline is well known as a rescue knot for such purposes as rescuing people who might have fallen down a hole, or off a cliff onto a ledge. They would put it around themselves and sit on the loop. This makes it easy to heft them up away from danger. It is also one of the few knots that can be tied with a single hand.

### 5) Sheep Shank.

The Sheepshank is a type of knot that is used to shorten a rope. The knot has several

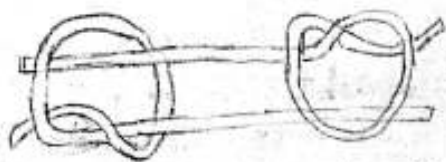


features which allow a rope to be shortened. It provides two loops, one at each end of the knot which can be used to pass another rope through. The knot remains somewhat secure under tension. The coarser the rope the more secure it is.



Advantages:- Very effective in shortening a rope without having to cut it.

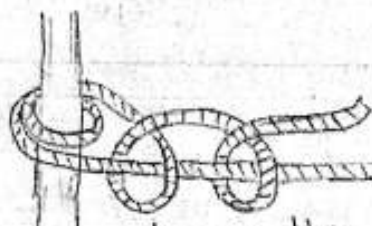
② Fisherman Knot:-



This knot securely ties two stiff or wet ropes together or can be used to fasten the end of a rope or cord to make a loop. It can be used to lift pots or other load that have a neck around which the knot can be tightened.

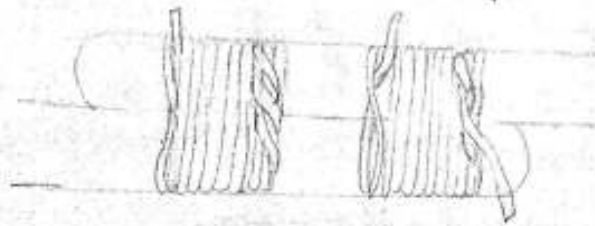
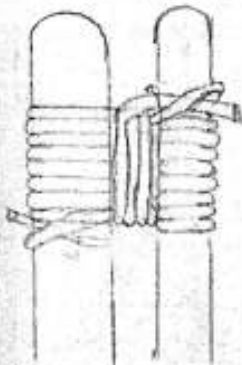
Advantages:- Very easy to tie and the loop circumference can be varied easily.

③ Round turn and two half hitches:-



Used to secure a rope to a pole or to start or finish a lashing. Pass the running end of the rope over the pole twice. Then pass the running end over the standing part of rope, and tuck it back up and under itself, forming a half hitch. Repeat this for a second half hitch.

c. Tie & Demonstrate Sheer Lashing Mark I & Mark II.  
 ಸಮಾನಾಂತರ ಕಟ್ಟು/ ವಿಯರ್ ಲ್ಯಾಷಿಂಗ್ 1 ಮತ್ತು 2 ವಿಧ ಕಟ್ಟಿ ಪ್ರದರ್ಶಿಸಿ.



Sheer Lashing Mark I

Sheer Lashing Mark II

Sheer Lashing Mark I :-

uses :- Sheer legs support weight. A single pair can be controlled with a rope as they lean over a stream to lift a bucket. A series of them can support an aerial walkway.

Sheer Lashing Mark II :-

uses :- Two round lashings can be used to make a longer pole used for joining two spars to increase the overall length.



d. MAKE A GADGET OR HANDICRAFT USEFUL AT HOME.

ಮನೆಗೆ ಉಪಯುಕ್ತವಾದ ವಿಶೇಷವಿಷಯ ಅಥವಾ ಕರಕುಶಲ ವಸ್ತುವನ್ನು ತಯಾರಿಸಿ.

Sketch of the Gadget or Handicraft/ ಸುಧಾರಿಸಿದ ವಿಶೇಷವಿಷಯ ಅಥವಾ ಕರಕುಶಲ ವಸ್ತುವಿನ ಚಿತ್ರಣ



Materials Used / ಉಪಯೋಗಿಸಿದ ವಸ್ತುಗಳು

- \* Two pioneering stakes, a solid stick about 30 inches long with a notch on either end to hang the buckets
- \* Two short  $\frac{1}{4}$ -inch manila lashing ropes, 6 to 10 feet long

Knots & Hitches Used / ಅದರಲ್ಲಿ ಬಳಸಿದ ನೋಟುಗಳು ಮತ್ತು ಮಲಕಗಳು

Then making sure the notches on the 30 inch crossbar are facing up, lash it to the two stakes with tight square lashing's.

Uses / ಉಪಯೋಗಗಳು

Fill the fire buckets and hang them on either side. That's all there is to it. This same design can be used in a variety of ways. It can also be used to hang two buckets with sand and water to be used to douse emergency fires.



## 6. OUT OF DOORS / ಹೊರಾಂಗಣ

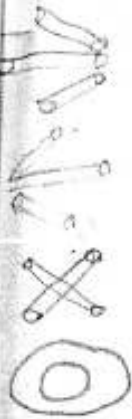
- a. Know the Simple Wood Crafts Signs & follow a trail with his Patrol of not less than half a Kilo Meter / ವನವಿದ್ಯಾ ಸಂಕೇತವನ್ನು ತಿಳಿದು ಪಟಾಲಂಗಳೊಡನೆ 1/2 ಕಿ.ಮೀ.ಗಿ ಕಡಿಮೆ ಇಲ್ಲದಂತೆ ಜಾರನ್ನು ಆಸುಸಂಸಿ ಮಾರ್ಗವನ್ನು ಕ್ರಮಿಸಿ.

Write the Wood Craft Signs & write the brief report of the trail.  
ವನವಿದ್ಯಾ ಸಂಕೇತಗಳನ್ನು ಬರೆಯಿರಿ ಮತ್ತು ಜಾರಿನ ಸಂಕ್ಷಿಪ್ತ ವರದಿ ಬರೆಯಿರಿ.

### Wood Craft Signs

- ①  Proceed this way
- ②  Do not go this way
- ③  Cross the hurdle and proceed.
- ④  Starting Point.
- ⑤  Halt here for further instructions
- ⑥  Pure water
- ⑦  Impure water
- ⑧  Danger
- ⑨  Secret message hidden at 10 paces in any direction.
- ⑩  Camping Site
- ⑪  Way to Camping Site.
- ⑫  Go this way.

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Go Right

Go left

Danger do not go this way

Reach the ending point

ed. We started by 10.00 AM from our school.

Our school bus dropped us off at Nadiharala hall; from where we started trekking by action group in our respective patrols. A group of senior scouts along with our scout Master had gone ahead as the lead group. They had laid down wood craft signs along the path for us to observe and take appropriate action. It was fun and we learnt a lot about signs and how to use things found in nature to make signs.

Along the way we also collected plastic garbage that people had strewn to do our bit in cleaning the countryside. on reaching Airani after 3 hours.

Overall it was an educational and fun filled trip.

c. Participate in a Nature Study Trail / ಪ್ರಕೃತಿ ಅಧ್ಯಯನ ಯಾತ್ರೆಗೆ ಭಾಗವಹಿಸಿ.

A BACK WOODS MAN WHO LIVES FAR AWAY from human habitations in the deep forest must know about useful trees and other plants.

Take out the scout to get specimens of leaves, fruits, or blossoms of various trees and shrubs and observe the shape and nature of trees both in summer and in winter.

Collect leaves of different trees. Let Scouts make tracings of them and write the name of the tree on each.

In the country have Scouts examine crops in all stages of their growth so that they know pretty well by sight what kind of crop is coming up.

There are numbers of berries, nuts, roots, barks and leaves that make good eating. Find out which of these are found near our camp site and try to make a camp meal of them.

Encourage Scouts to collect specimens of wild flowers, stones, leaves, different types of sand flowers.



# 1. PIONEERING / ಅಗ್ರಾಮಿತ್ಯ

a. Demonstrate Timber Hitch, Rolling Hitch, Marline Spike/ Lever Hitch & Figure of Eight knot & their use / ದಿಮ್ಮಿ ಗೊಂಬೆ, ಸುರಳಿ ಗೊಂಬೆ, ಸಣ್ಣಿ ಗೊಂಬೆ, & ಅಕಾರದ ಗೊಂಬೆ

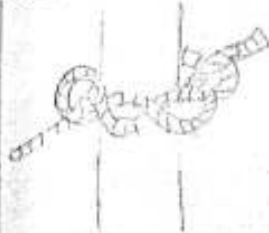
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Sketches / ಚಿತ್ರಣ

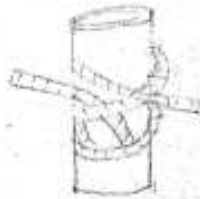
Use / ಉಪಯೋಗ

Timber Hitch



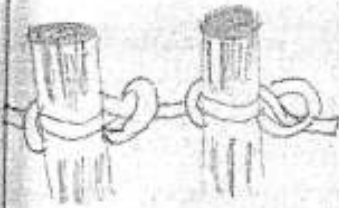
It is also used to attach the strings on some stringed instruments including the ukelele and the guitar.

Rolling Hitch



The rolling hitch is a knot used to attach a rope to a rod, pole or another rope. A simple friction hitch it is used for lengthwise pull along on object rather than a right angles.

Marlin Spike / Lever Hitch



The Marlin Spike Hitch is a wonderful way of quickly gripping a pole or a bar to take weight. It is useful when tightening knots and for other purposes in rope work.

Figure of Eight knot:



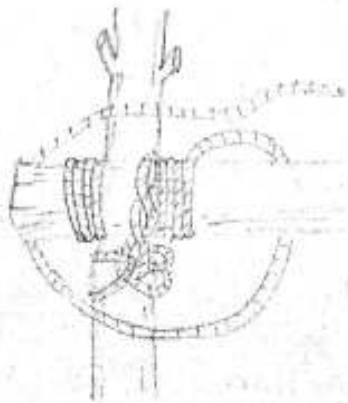
Figure of eight knot is a type of stopper knot. It is very important in both sailing and rock climbing as a method of retaining devices. like the overhand knot,





b. Tie the following lashings & know their uses: Square & Figure of Eight.  
 ಈ ಕೆಳಗಿನವು ಕಟ್ಟಿ ಮತ್ತು ಅವುಗಳ ಉಪಯೋಗ ತಿಳಿಯಿರಿ : ಚೌಕ ಕಟ್ಟಿ ಮತ್ತು 8 ಆಕಾರದ ಕಟ್ಟಿ

Sketches / ಕೆಲಸ ಚಿತ್ರಗಳು  
Square Lashing



Use / ಉಪಯೋಗ

A square lashing is used to bind two things (often logs / poles) together at a right angle. It is important to note that it is used for items that will be used at a right angle to the ground as well. If poles are intended to be used diagonal to the ground or diagonal to their load, then a diagonal lashing should be used.

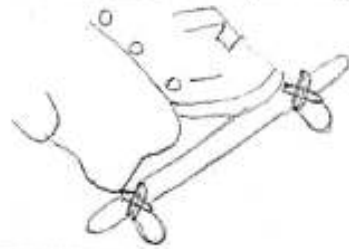
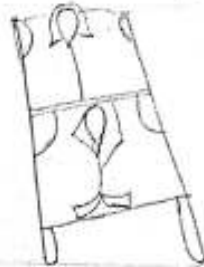
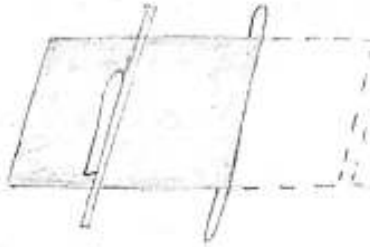
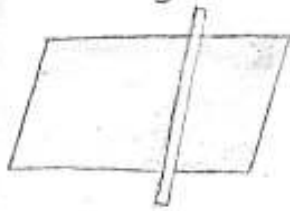
Figure-of-Eight knot



The figure-of-eight knot is a type of stopper knot. It is very important in both sailing and rock climbing as a method of stopping ropes from running out of retaining devices. Like the overhand knot, which will jam under strain, often requiring the rope to be cut the figure-of-eight will also jam but is usually more easily undone than the overhand knot.

d. Improvise a Stretcher / ಸುಧಾರಿತ ವೋಲಿಯನ್ನು ತಯಾರಿಸಿ.

Sketch / ಕೆಲಸಾ ಚಿತ್ರ



If you must move someone to get them out of danger, such as away from a fire or if they must be moved to reach medical services, a sturdy stretcher is the best way to keep a person stable and free from further injury. The key to any improvised stretcher is to make it rigid, durable, easy to carry, and as comfortable as possible. Fortunately stretchers can be made of a wide variety of materials you might be carrying with you or that you can source from the immediate environment.

## 1. PIONEERING / ಅನ್ಯೂಮಿತ್ಯ

a. Tie & know the use of the following:

ಕೆಳಗಿನ ಗಂಟುಗಳನ್ನು ಕಟ್ಟುವುದನ್ನು ಮತ್ತು ಅವರ ಉಪಯೋಗವನ್ನು ತಿಳಿಯಿರಿ:

**FIREMAN'S CHAIR KNOT**

ಅಗ್ನಿಶಾಮಕ ಕುರ್ಚಿ ಗಂಟು

**MAN HARNESS KNOT**

ವರೆ ಗಂಟು

**BOWLINE ON BITE**

ಕುಣಿಯಲ್ಲಿ ಕುಣಿಕೆ ಗಂಟು

**DRAW HITCH.**

ಬಾರು ಮಲಕು ಗಂಟು

Sl.No./ಕ್ರ.ಸಂ

Name/ ಹೆಸರು

Sketch/ ಚಿತ್ರ

Use/ ಉಪಯೋಗ

**FIREMAN'S CHAIR KNOT / ಅಗ್ನಿಶಾಮಕ ಕುರ್ಚಿ ಗಂಟು**

267



use:- Made with suitable rope by qualified personnel this knot can be used as a rescue harness capable of supporting a person while being hoisted or lowered to safety. The fireman's chair knot can also be used to move a victim laterally when used as a part of a tensioned horizontal high line system.

**MAN HARNESS KNOT / ವರೆ ಗಂಟು**

268



use:- The Man harness is a knot with a loop on the bight for non-critical purposes. This knot is used when multiple people are to pull a load, typically one end of the rope is tied to a load, and one man harness knot per puller will be tied along its length.



Sl.No./ಕ್ರ.ನಂ

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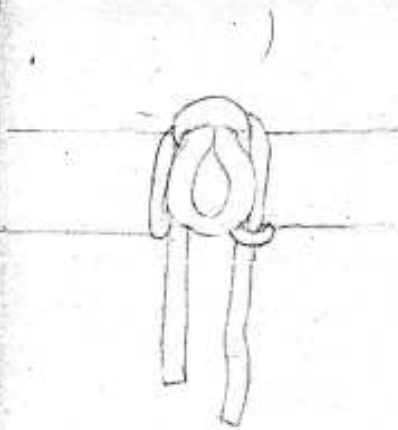
Sketch/ ಚಿತ್ರ

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**BOWLINE ON BITE / ಕಂಪೆನು ಕಂಪೆ ನೋಟ**

**DRAW HITCH / ಪಾಕು ಮುರಕು ನೋಟ**

256



use: when hoisting a large structure that is not intended for climbing eg. a tall gateway, and the lines you're using for lifting and preventing over-pulling are not guy lines, tie the middle of the hoisting. Then when the structure is standing, these lines can be easily removed with a simple tug on the free end.

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