# **Troop 316 Knots and Lashings**

### **Resources:**

http://www.animatedknots.com/indexscouting.php http://scoutingmagazine.org/2016/04/tie-essential-scouting-knots/ Knots in **bold** are required for scout advancement.

# **Stopper Knots**

Overhand knot	The overhand knot is a stopper,	
	especially when used alone, and hence it	
	is very secure, to the point of jamming	
	badly. It should be used if the knot is	
	intended to be permanent. It is often	
	used to prevent the end of a rope from	
	unraveling. It is the basis of many other	
	knots.	
Figure Eight	The figure eight is often used in climbing	
	and sailing for its effective performance	
	as a stopper knot. The knot can quickly	
	and easily be tied to prevent a rope from	
	being pulled out of a retaining device. Yet	
	even after great strain is put on the knot,	
	the figure eight can easily be untied and	
	if needed quickly retied elsewhere. This is	
	an enormous advantage because some	
	other stopper knots might pull so tightly	
	that a scout would have to cut the rope	
	in order to get it untied. Can also be	
	used to form a loop at the end of a rope	
	if tied on a bight.	





## Joining Knots

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Square Knot	The basic knot and often the first thing taught to a brand new scout. The square knot has few purposes outside of simply tying the ends of a rope off to secure it. Therefore it is often used in conjunction with other knots in a support role. The square is often used in First Aid when tying bandages or securing splints. The Square can be used to connect two separate knots but it is not as strong as other knots that can accomplish the same task.	
Sheet Bend	The Sheet Bend is an excellent knot for joining two pieces of rope. The Sheet Bend is particularly effective at joining ropes of different diameters.	
Double Sheet Bend	Similar to the sheet bend, but adds an extra wrap to make the knot more secure.	
Slippery Sheet Bend	Same as sheet bend but a loop is used to make it easy to untie.	
Water Knot	Used to join flat webbing. Basically an overhand knot. The Frost knot is similar but is an overhand knot tied on a bight at the end of the webbing to form a loop.	

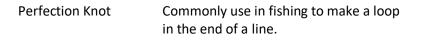
# Loop Knots

Slip Knot	The Slip Knot is a simple knot in which one end of rope is used to tie an overhand knot onto some other piece of the same line. This will create a large loop but due to the simple nature of the knot it will easily "slip" to tighten or loosen. For this reason the Slip Knot should not be used as a rescue knot (around people) because it will continue to tighten and constrict. Note that a figure 8 knot can also be used to make	0
Bowline	the knot more secure. The Bowline is one of if not the most important knots. It is similar to the Sheet Bend except that rather than connecting two ropes it forms a fixed loop at the end of a rope. This loop can go around or even through an object to secure it. The bowline is used widely in sailing and is also a rescue knot in climbing. There are numerous variations of the bowline which improve upon the basic version or specialize for a specific function. A knowledgeable scout might also be able to tie a one-handed Bowline around his own body.	
Bowline on a Bight	A bowline knot tied on a bight (loop) of a rope. Useful in making a rescue seat by making the loop of different lengths. A person sits on one loop and the other (shorter loop) goes around the chest.	

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Alpine Butterfly A strong loop tied in the middle of a rope.

Figure 8 Loop A figure 8 tied on a bight at the end of a rope. Often used to secure a rope to a climbing harness. Less bulky than a bowline, but not as easily untied.

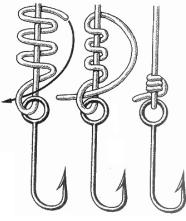


Clinch Knot Commonly used to attach a hook to fishing line.





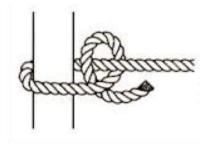


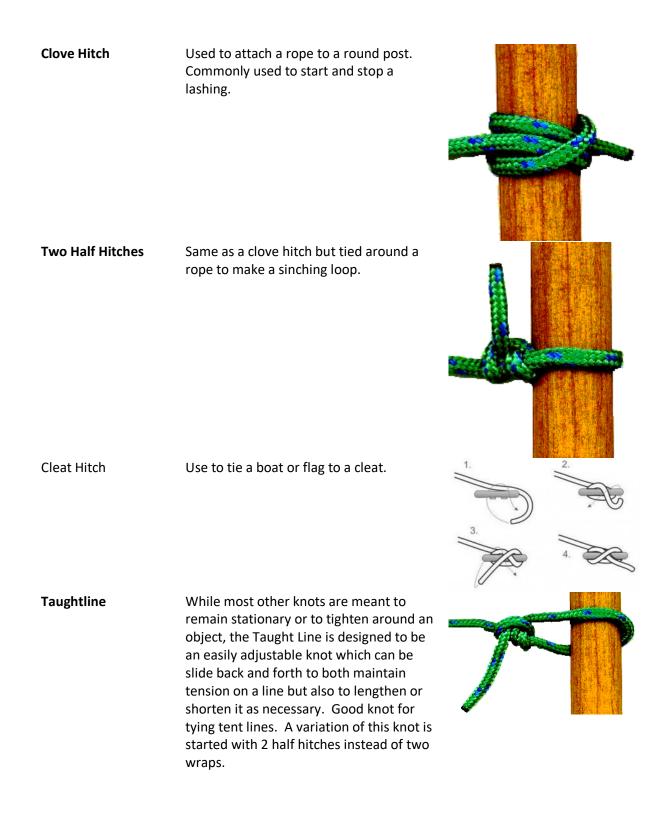


Hitches

Half Hitch

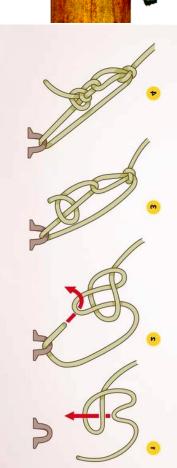
Rare used by itself. It is an overhand knot tied around a post or ring. It is used as part of other knots.



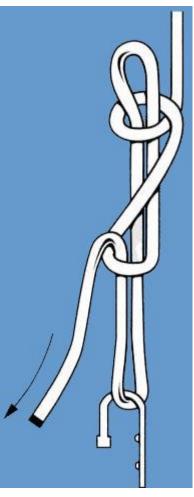


Timber Hitch The Timber Hitch is used to secure a rope to a cylindrical object such as a piece of timber or pipe. Unlike the more secure Clove Hitch, the Timber Hitch is faster to tie and also much easier to untie no-matter the amount of tension previously put on the rope. May be tied with additional half hitches along the length of the timber or pipe.

Trucker's Hitch 1 This version is a very secure method of tying down a load and provides mechanical advantage for tightening. Secure the end with half hitches. Note that the slip knot is difficult to untie but it cannot come undone during transport.



Trucker's Hitch 2 This version is very quick to tie. When using poly rope add an additional twist to the loop. Note: This knot should not be used for heavy loads as it can come apart. Very easy to untie. Secure the end to the hook with a clove hitch.





Used to make a sliding connection to a rope. Commonly the Prusik is tied in smaller cord than the main rope. One tied the knot can slid up the rope but will lock once tension is applied. Useful in ascending a rope or hauling. Commonly used for climbing and white water.



#### Lashings Square

Square lashing is a type of lashing used to bind poles together at right angles.



Diagonal

Used to attach poles that may not be at a right angle such as a cross brace.



**Shear and Tripod** Shear (2 poles) and Tripod (3 poles are used when the poles need to rotate to form an "X" or tripod.

# Scouting Rank Knot Requirements:

#### Tenderfoot

3a. Demonstrate a practical use of the square knot.

3b. Demonstrate a practical use of two half-hitches.

3c. Demonstrate a practical use of the taut-line hitch.

#### 2<sup>nd</sup> Class

2f. Demonstrate tying the sheet bend knot. Describe a situation in which you would use this knot.

2g. Demonstrate tying the bowline knot.

#### 1st Class

3b. Demonstrate tying the timber hitch and clove hitch.

3c. Demonstrate tying the square, shear, and diagonal lashings by joining two or more poles or staves together.

3d. Use lashings to make a useful camp gadget or structure.

