

## Knot Tying Helps

1. Define the following terms: Bight; Running end; Standing part; Underhand loop; Overhand loop; Turn; Bend; Hitch; Splice; Whipping

- *Running End*: The part of the rope you are using to make the knot, often the short end.
- *Standing Part*: The portion of rope that isn't being moved to make a knot, often the long end, may be connected already to something else.
- *Bight*: A curve in a rope, making it into a "U" shape
- *Loop*: A Bight where the running end crosses the standing part, closing the Bight.
- *Underhand Loop*: A loop where the Running End passes under the Standing Part.
- *Overhand Loop*: A loop where the Running End passes over the Standing part.
- *Turn*: Passing the rope around another object (a pole, ring, hook or even a rope)
- *Bend*: A knot to tie the ends of two ropes together
- *Hitch*: A knot to attach a rope to something else, like a pole.
- *Splice*: Joining one or two ropes by braiding them or interweaving them together
- *Whipping*: Using thread or string to bind the end of a rope to prevent fraying

See <http://www.animatedknots.com/terminology.php>

And <http://www.wilderness-survival.net/ropes-knots/rope-inspection>

And <http://www.66thlondon.org/knots.html>

2. Know how to care for rope.

See <http://www.animatedknots.com/indexropecare.php>

And <http://www.marlowropes.com/technical/ropecare-advice.html>

And <http://www.seasupport.org/ropes.htm>

3. Describe the difference between laid rope and braided rope and list three uses of each.

See <http://boatsafe.com/marlinespike/rope.htm>

And <http://www.cncphotoalbum.com/rope/>

4. Identify the following types of rope: Manila; Nylon; Sisal; Polypropylene

See <http://boatsafe.com/marlinespike/material.htm>

And <http://www.makkee.com.hk/index.aspx?id=20050530152350&lang=e>

5. What are some advantages and disadvantages of synthetic rope?

(See above)

6. Do the following to rope:

- Splice <http://www.animatedknots.com/spliceshort/>
- Eye splice <http://www.animatedknots.com/splice/>
- Back splice <http://www.animatedknots.com/backsplice/>
- Finish the end of a rope with a double crown (tie twice)

<http://www.marineews.com/bait-presentation/crown-knot/529/>

• Whipping <http://www.animatedknots.com/commonwhipping/>

• Matthew Walker's knot

<http://www.marineews.com/bait-presentation/matthew-walker-knot/536/>

7. Make a six-foot piece of three-strand twisted rope from native materials or twine.
8. From memory tie at least 20 of the following knots and know their common uses and limitations. Demonstrate how they are used. [Note that there are often different names for knots, and different knots with the same common name]

Assorted:

Square knot <http://www.animatedknots.com/reef/>

Surgeon's knot <http://shoreangling4u.tripod.com/knotguide/id13.html>

OR [http://www.2ndbrooklands.org.uk/KNOTS/surgeons\\_knot.jpg](http://www.2ndbrooklands.org.uk/KNOTS/surgeons_knot.jpg)

Slip knot [www.animatedknots.com/slip/](http://www.animatedknots.com/slip/) OR <http://www.animatedknots.com/noose/>

Sheepshank <http://www.animatedknots.com/sheepshank/>

Prusik knot <http://www.animatedknots.com/prusik>

Stopper Knots:

Overhand knot <http://www.animatedknots.com/overhand/>

Figure eight [http://www.animatedknots.com/fig8\\_/](http://www.animatedknots.com/fig8_/)

Stevedore's knot

<http://sailing.about.com/od/SailingKnots/ss/How-To-Tie-A-Stevedores-Stop-Knot.htm>

Loops and hoops:

Bowline <http://www.animatedknots.com/bowline>

Bowline on a bight <http://www.animatedknots.com/bowlinebight/>

Double bowline <http://www.animatedknots.com/bowlinewater/>

Butterfly loop knot or Alpine Butterfly knot <http://www.animatedknots.com/alpinebutterfly/>

Man harness knot

<http://climbing.wonderhowto.com/how-to/tie-man-harness-knot-151059/>

Lariat or Bowstring knot <http://www.survivalworld.com/knots/bowstring-knot.html>

Fisherman's loop <http://www.marine.com/bait-presentation/fishermans-loop/691/>

Joining Ropes (Bends):

Sheet bend <http://www.animatedknots.com/sheetbend/>

Slipped sheet bend

<http://www.netplaces.com/knots/tying-bends/slipped-sheet-bend.htm>

Double sheet bend <http://www.trailmeister.com/Knots/DoubleSheetbend.html>

Fisherman's knot <http://www.survivalworld.com/knots/fisherman%27s-knot.html>

Hunter's bend <http://www.animatedknots.com/hunters/>

Carrick bend <http://www.animatedknots.com/carrick/>

Tying Sacks or Bags:

Constrictor knot [www.animatedknots.com/constrictorend/](http://www.animatedknots.com/constrictorend/)

Miller's knot <http://www.youtube.com/watch?v=c6FEkXqwq5A>

Packer's knot <http://www.animatedknots.com/butchers/>

Strangle knot <http://www.simpleknotsguide.com/hitches/76-strangle>

Tying to poles, hooks or rings (Hitches):

Anchor bend [http://www.netknots.com/rope\\_knots/anchor-bend](http://www.netknots.com/rope_knots/anchor-bend)

Cat's paw <http://www.survivalworld.com/knots/cats-paw.html#23.UTLKGugrMpM>

Clove hitch <http://www.animatedknots.com/clove/>

OR <http://www.animatedknots.com/cloveend/>

Halter hitch <http://notableknotindex.webs.com/haltersiberian.html>

Lark's head <http://www.animatedknots.com/cow/>

Tautline hitch <http://www.animatedknots.com/rollinghitch/>

Pipe hitch [http://www.bsatroop542.org/Knots\\_PipeHitch.htm](http://www.bsatroop542.org/Knots_PipeHitch.htm)

Timber hitch <http://www.animatedknots.com/timber/>

Two half hitches <http://www.animatedknots.com/roundturn/>

Slipped half hitch <http://www.survivalworld.com/knots/half-hitch.html>

Ending ropes:

Crown knot <http://www.animatedknots.com/crown/>