

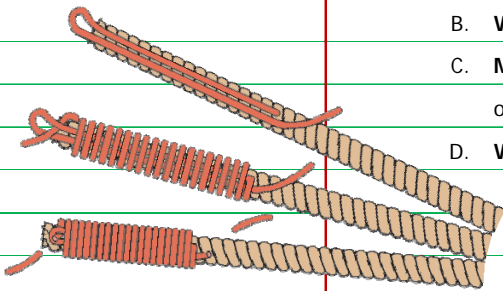
Use this section for power words.

Chuyên Môn ~ Nút Dây (Rope Care and Maintenance)

- I. Rope Care - Follow these guidelines to ensure that your rope lasts as long as possible and always performs safely:
- A. **Store ropes correctly:** Keep rope in a cool, dry place out of direct sunlight, and store it in neat coils, not a tangled pile.
 - B. **Inspect ropes regularly:** Inspect your ropes regularly for signs of fraying ends or decaying internal fibers.
 - C. **Retire ropes when necessary:** Discard any ropes that show the slightest signs of decay or that endure a jolt close to or beyond their maximum recommended load.

- II. Seal the Ends of Cut Rope - The ends of a freshly cut rope will rapidly fray and unlay if nothing is done to prevent it. If you cut a rope, always seal the ends to prevent fraying or unravelling. You can seal the ends of a rope in a number of ways:

- A. **Binding:** Apply masking or duct tape to the rope ends.
- B. **Waxing:** Drip melted wax thoroughly on the rope ends to seal them.
- C. **Melting:** With nylon ropes, you can seal the ends by melting the nylon fibers with direct heat from a lighter or match.
- D. **Whipping:** Use twine that has a considerably smaller diameter to bind and seal the rope ends.
 1. Lay the end of the twine along the rope end so that the bight of the twine is near the rope end.
 2. Wrap the twine tightly around the rope and slip the end of the twine through the bight.
 3. Tighten and snip off both ends of the twine.



The quickest method used in TNTT is melting the end of the ropes. However, the preferred method is whipping. Whipping a rope prevent many problems when using the other sealing methods. When a ropes gets wet or dirty, the tape used in the binding method can slip off the end of the rope. When the temperature gets to hot or if the rope is near a heat source, the wax will begin to melt. This is a problem for the binding method also because some adhesive can melt when heat is applied to the tape. Some rope will not take to the melting method because of the material that is made from. Also, using fire is a safety issue for some younger individuals.

Homework: Memorize rope care and rope sealing methods. Practice the whipping method.
Answer the following questions.

Questions:

- 1) What do we do with ropes after camping?
- 2) How many ways can we seal the end of the rope? What are they?
- 3) What are some of the problems with these types of methods?