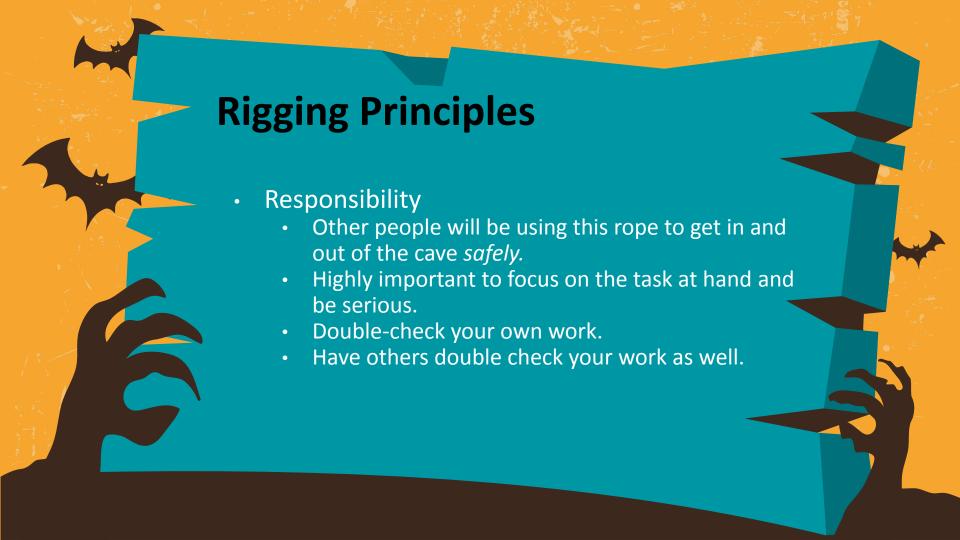


Rigging Principles • Safety

- Pretty knots often make people more comfortable descending on your ropes. Go for a clean rig.
- Never rig with dirty ropes
- Having someone look over your rigging to ensure all knots were tied properly, carabiners are locked, and the best techniques were used for the situation
- Don't rig anything you are uncertain about or uncomfortable with. It's okay to not peach a pit.
- Rig up, not down. It's better to have a stronger set-up than needed.

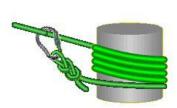








Strength of Anchors



No Knot: Rope strength (6,500 lb)



Girth Hitch: $2 \times 4,000 \text{ lb} \approx 8,000 \text{ lb}$



Tied: $2 \times 4000 \text{ lb } \times 2/3 \approx 5,300 \text{ lb}$



Wrap 3 Pull 2: $4 \times 4000 \text{ lb} \approx 16,000 \text{ lb}$



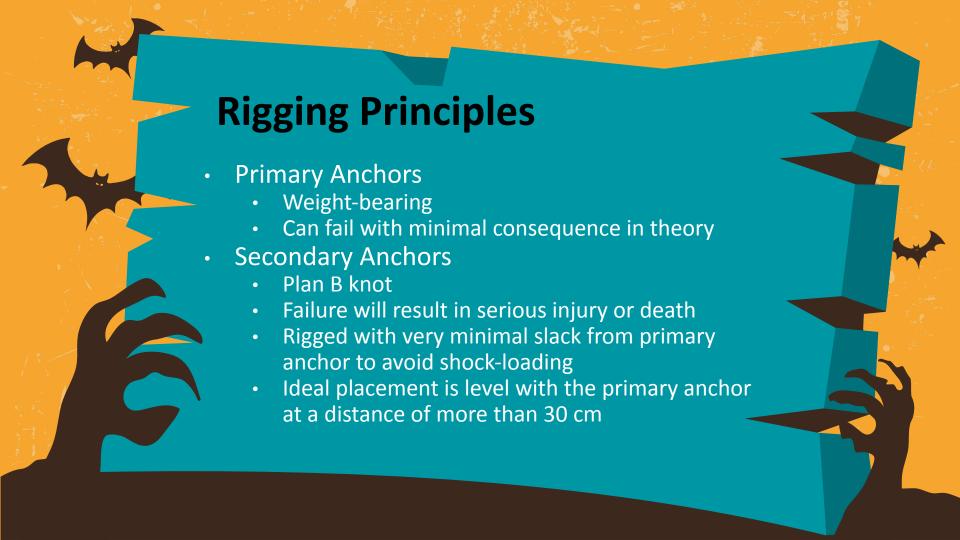


- Man-made Anchors
 - Bolts

Rope, figure-8 on a bite, locking carabiners (opposite, opposing)







FF< 0.3 Good

Anchor Placement







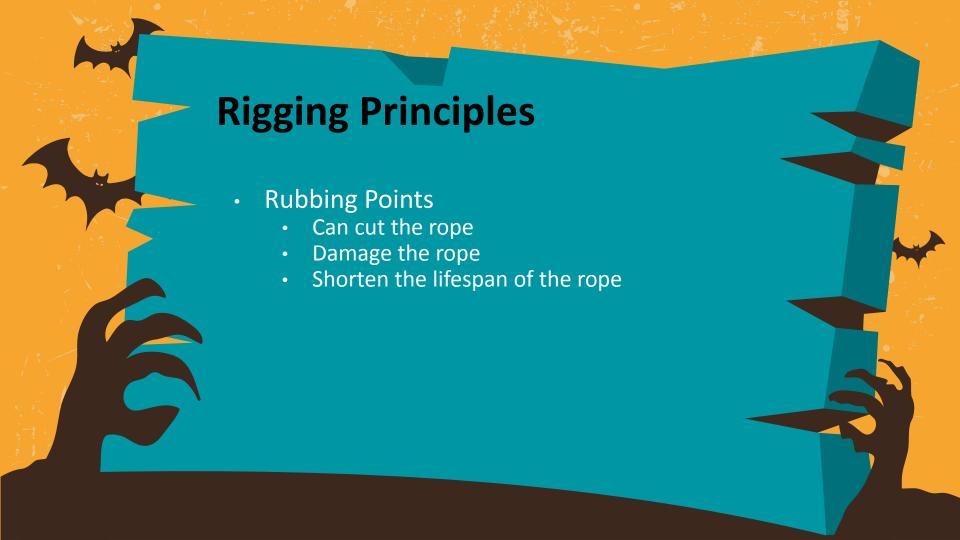
Opposite Opposing Locking Carabiners

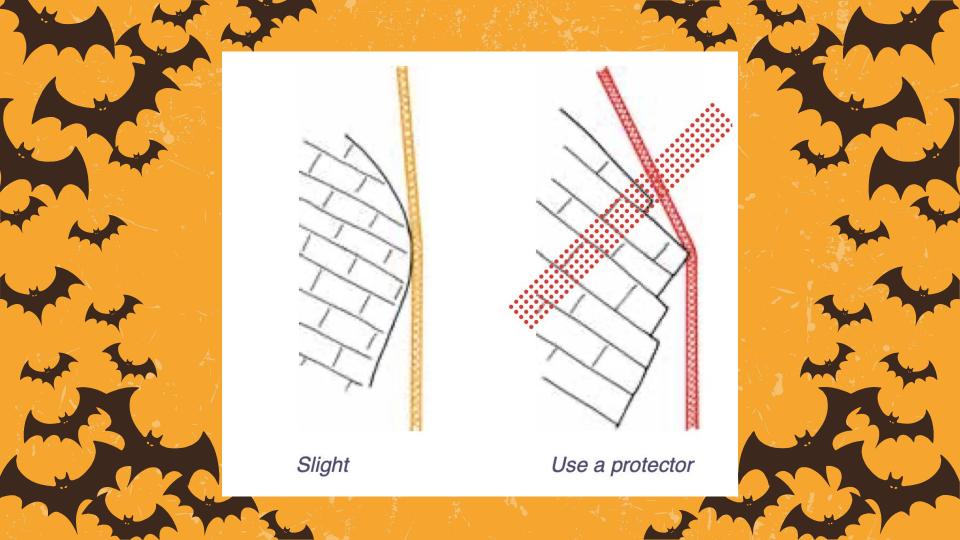
- Decreases likelihood of knot falling out of carabiners
 - This is a good thing
- Looks secure and leaves people feeling confident in your rigging











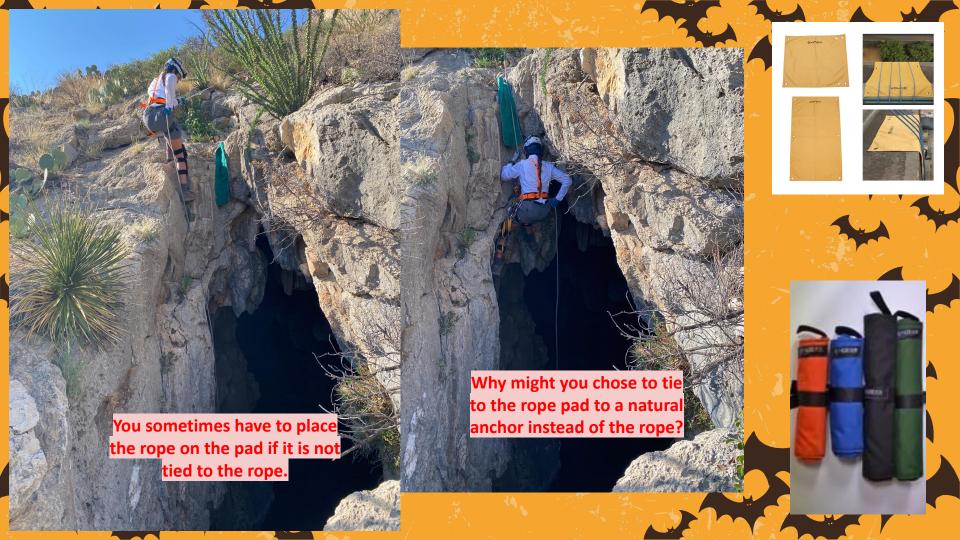


Figure-8 Follow Through Uses

- Saves on carabiners!
 - Important in expedition style caving
- No-tension rigging style

