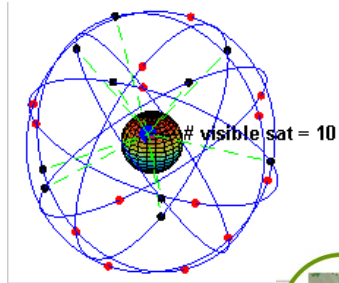




Geocaching Merit Badge



Earning Merit Badges



Help!! I've Fallen and I Can't Get Up
Please do not remove
Return me to tree root hole at:
N 38° 00.721'
W 078° 31.640'

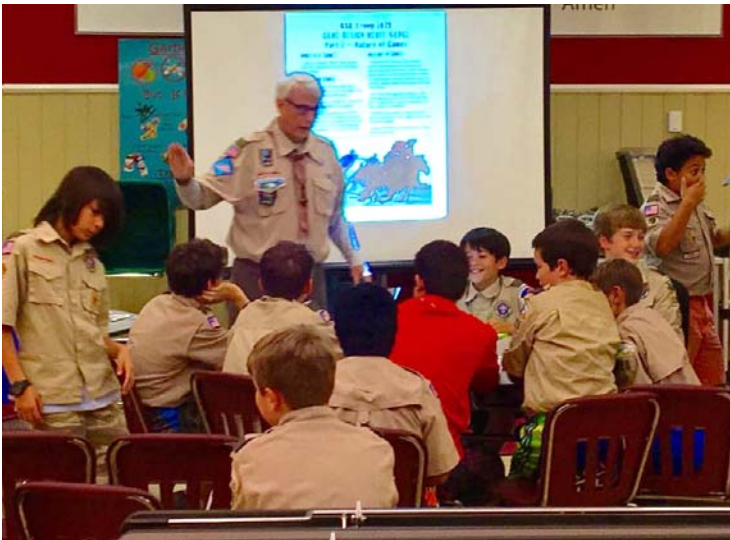
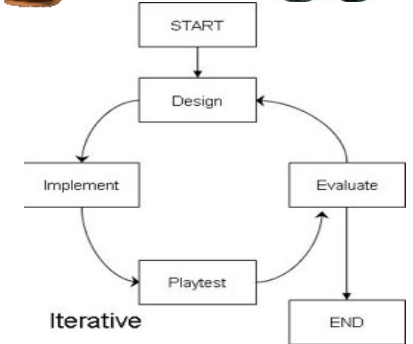




Game Design Merit Badge



Earning Merit Badges

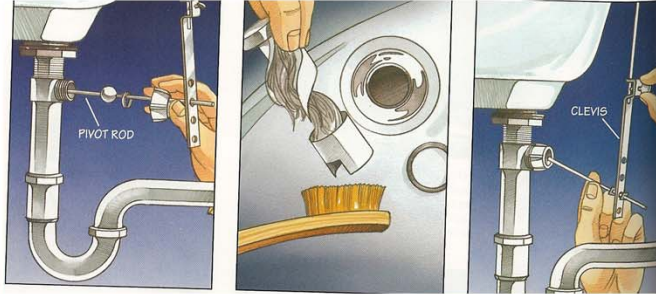
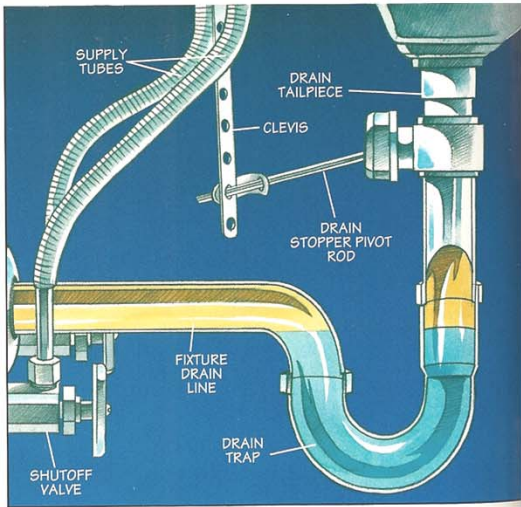




Home Repairs Merit Badge

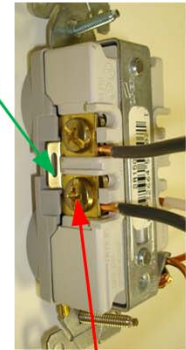
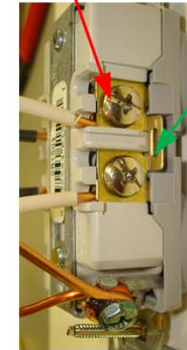


Earning Merit Badges



White on Silver (WOS)

Outlet Tabs (connect top to bottom)



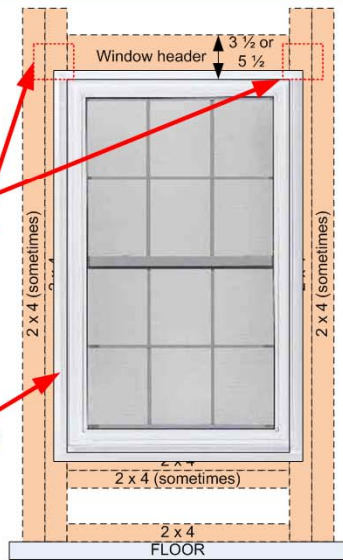
Ground Connection

White (wide) = Neutral

Black (narrow) = Hot

Black on Brass (BOB)

Window Wall Construction



Typical Bracket Locations

Window Frame Trim



Fancy Curtain Rods



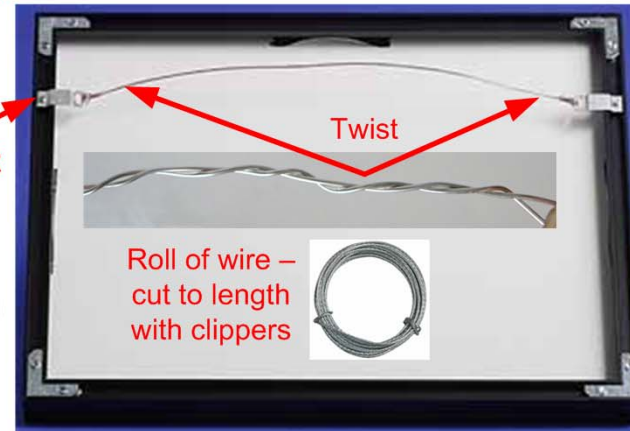
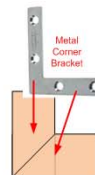
Example of Fine Art



Using picture hanger wire



OR



Roll of wire - cut to length with clippers

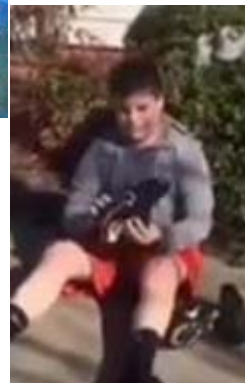
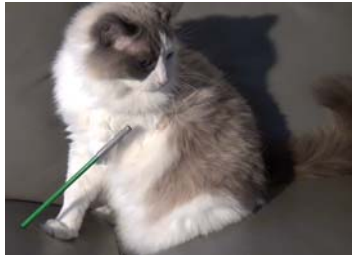




Moviemaking Merit Badge



Earning Merit Badges



Wild Man Beast Background

- Grumpy and unpredictable
- Often fight among themselves
- Very low levels of common sense
- Voracious appetite
- Sight restricted – cannot see trash, towels, or messes left behind
- Self-centered, extremely rude to all parental units



Wild Man Beast: Artist Rendition

- Note: Never photographed in their natural habitat (no survivors)





First Aid Merit Badge

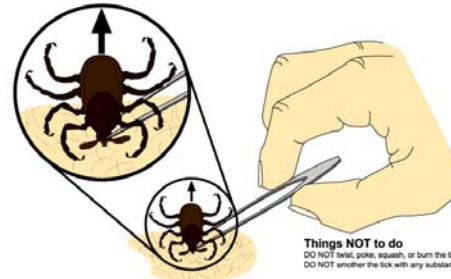


Earning Merit Badges



Removal of a Tick

Using a pair of tweezers, find where the tick's mouthparts have entered the skin. Place the ends of the tweezers around the base of the mouthparts and while applying gentle pressure pull the tick up slowly and steadily until it releases its hold. Dispose of the tick in a sealable plastic bag in the trash outside your home.

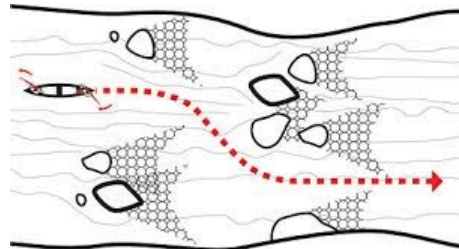


Things NOT to do
DO NOT twist, poke, squash, or burn the tick
DO NOT smother the tick with any substance

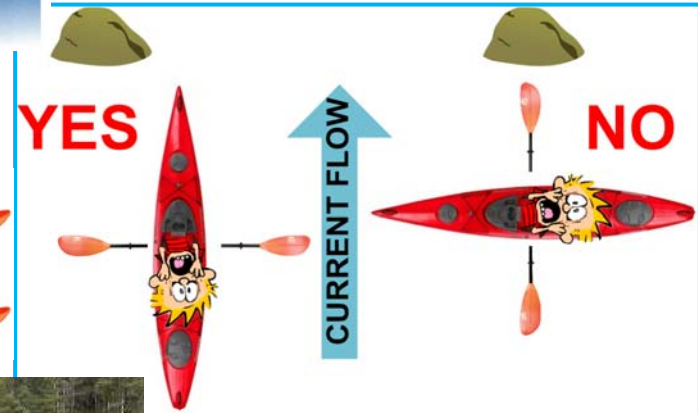
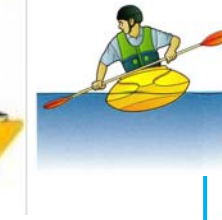




Kayaking Merit Badge



Earning Merit Badges



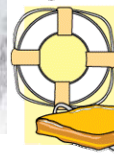
TYPE I
Off-shore life jacket—over 20 pounds of buoyancy, designed to turn an unconscious person face-up.



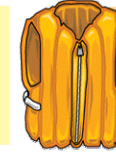
TYPE II
Near-shore buoyant vest—minimum 15.5 pounds of buoyancy, designed to turn an unconscious person face-up.



TYPE III
Flotation aid—minimum 15.5 pounds of buoyancy, not designed to turn an unconscious person face-up; more comfortable for water sports.



TYPE IV
Throwable device—minimum 16.5 pounds of buoyancy, designed to be grasped, not worn.



TYPE V
Special-use device—must be used in accordance with any requirements on the approval label.

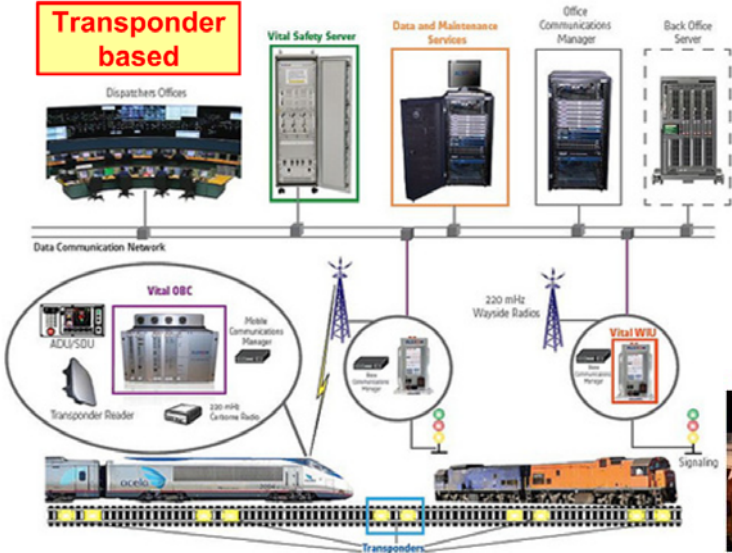


Railroading Merit Badge



Earning Merit Badges

Transponder based

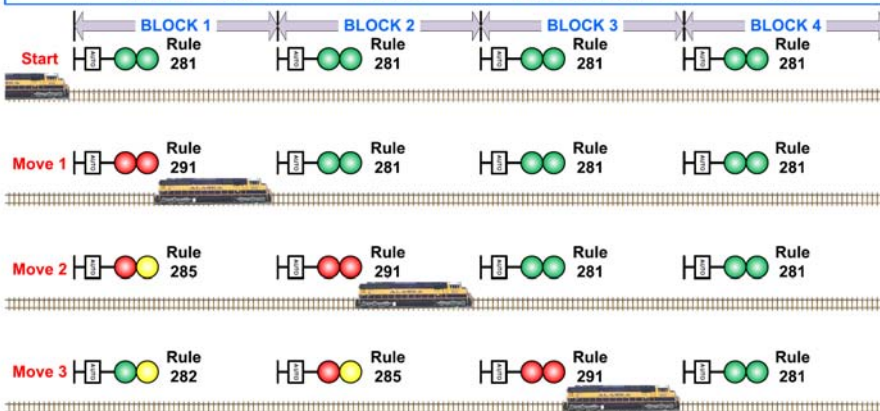


Microprocessor-based Automatic Train Control On-Board System



Automatic Signaling – Four Aspect Example

NORAC Aspect Rules:	RED over RED: Rule 291 Stop and Proceed	YELLOW over RED: Rule 285 Approach	YELLOW over GREEN: Rule 282 Approach Medium	GREEN over GREEN: Rule 281 Clear
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Latest in Signaling: Positive Train Control (PTC)

- In 2008, Congress passed a law that all railroads in the US (with some exceptions) must install Positive Train Control (PTC) systems to enhance system safety by preventing human errors from causing train accidents
- PTC must reliably and functionally prevent the following:
 - Train-to-train collisions
 - Over-speed derailments
 - Incursions into established work zones
 - Movement of a train through a mainline switch in an improper position

Indication

STOP

REDUCE SPEED

PROCEED



"CLOSED LOOP" TRACK CIRCUIT

