



RA Patches

What are RA Patches?

"RA Patches are earned by the RA and will be awarded to the RA at an end of the year ceremony. Parents will be encouraged to attend and more information will be available on this event in the future. Below you will find a list of patches your RA may earn and descriptions of what is required to earn each patch. Patches will be sewed on the RA Shirt by the award ceremony provided the RA has earned their shirt.

RA Shirt and Patch	Attend 1/2 of all RA Weekly Meetings
Knife Patch	Complete RA Parts of the Knife Worksheet; Field ID; LADs & Crusaders will have to open and close a knife safely; Crusaders will have to find a stick and whittle 6 inches of bark off the stick
Air Rifle Patch	Complete RA Parts of the Air Ragle Worksheet; Complete Feild Safety Test; Lad's- Shoot 5 our of 10 targets with 10 tries; Crusaders- Shoot 8 our of 10 targets with 10 tries
Rope Patch	LADs- Demonstrate the ability to tie 1 of the knots taught; Crusaders- Demonstrate the ability to tie every knot taught
Bible Verse Patch	Recite all 12 verse passages from the RA Achievers list.
Race Patch	Complete an RA Derby Car and participate in the RA Race
Hike Patch	Attend and hike the entire Burkes Mountain Trail
Fish a Thon	Attend and raise money for Annie Armstrong Easter Offering (Must be one donor that is not family)
Fish a Thon Award	Most Fish Caught; Most Money Raised; Biggest Fish; Most Weight Caught
Campout	Attend and sleep overnight
Bow Patch	Complete RA Bow Worksheet; LADs will have to hit the target; Crusaders will have to hit within the 12 ring
Rod & Reel Patch	Complete RA Rod & Reel Worksheet; LADs will have to string rod, cast at target; Crusaders will have to string rod, tie lure on, cast and hit target



Bow Safety and Patch Requirements

Bow Safety

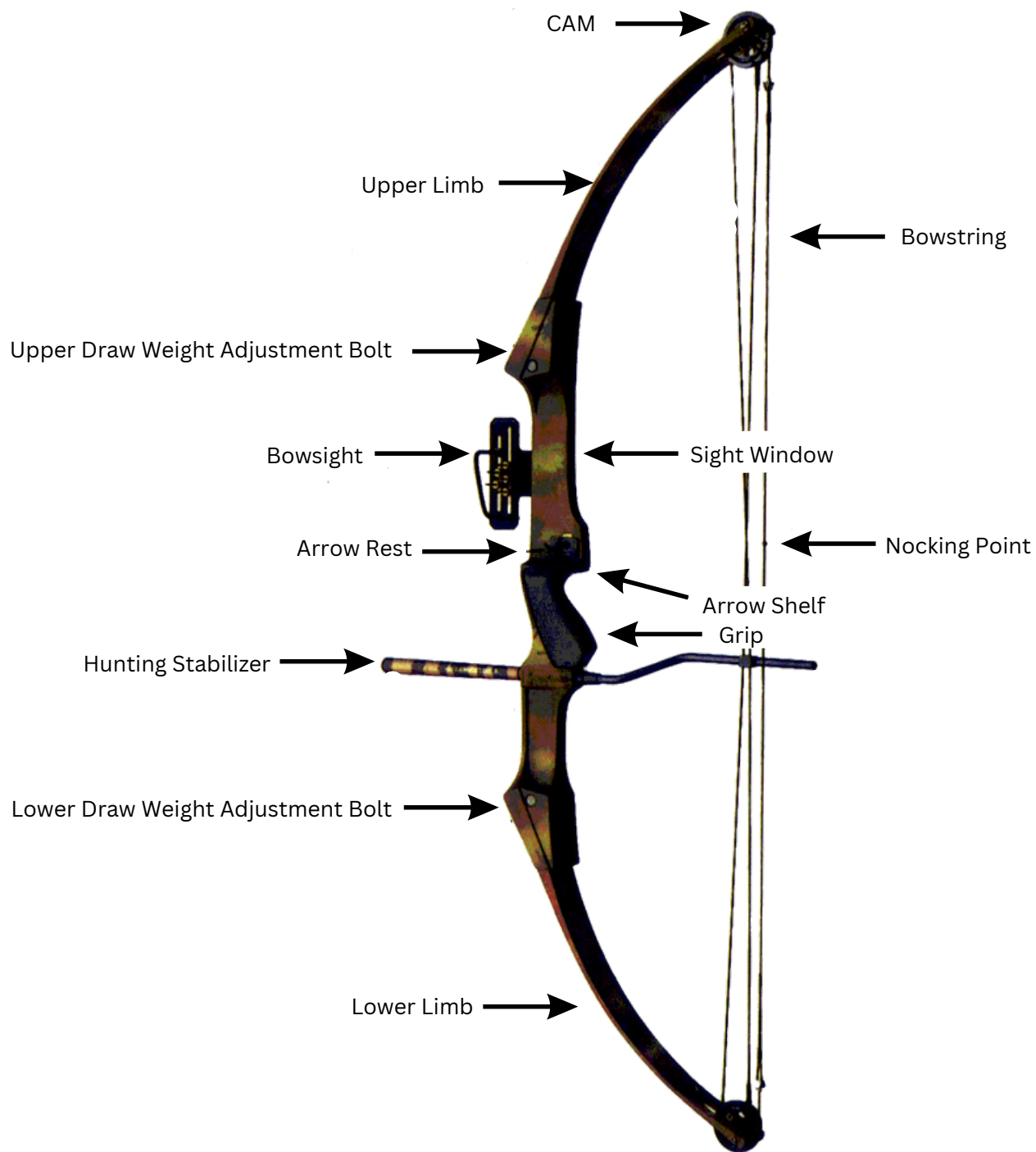
1. Do not run while holding an arrow.
2. Always shoot behind the line and only down field
3. Always hold arrow correctly
4. Nock arrow when told

Patch Requirements

1. RA must be able to recite 4 Bow Safety rules
2. Complete Parts of a Bow and Arrow Worksheets
3. 1st-3rd Graders must successfully hit the target, 4th-5th Graders must hit within the 8 ring



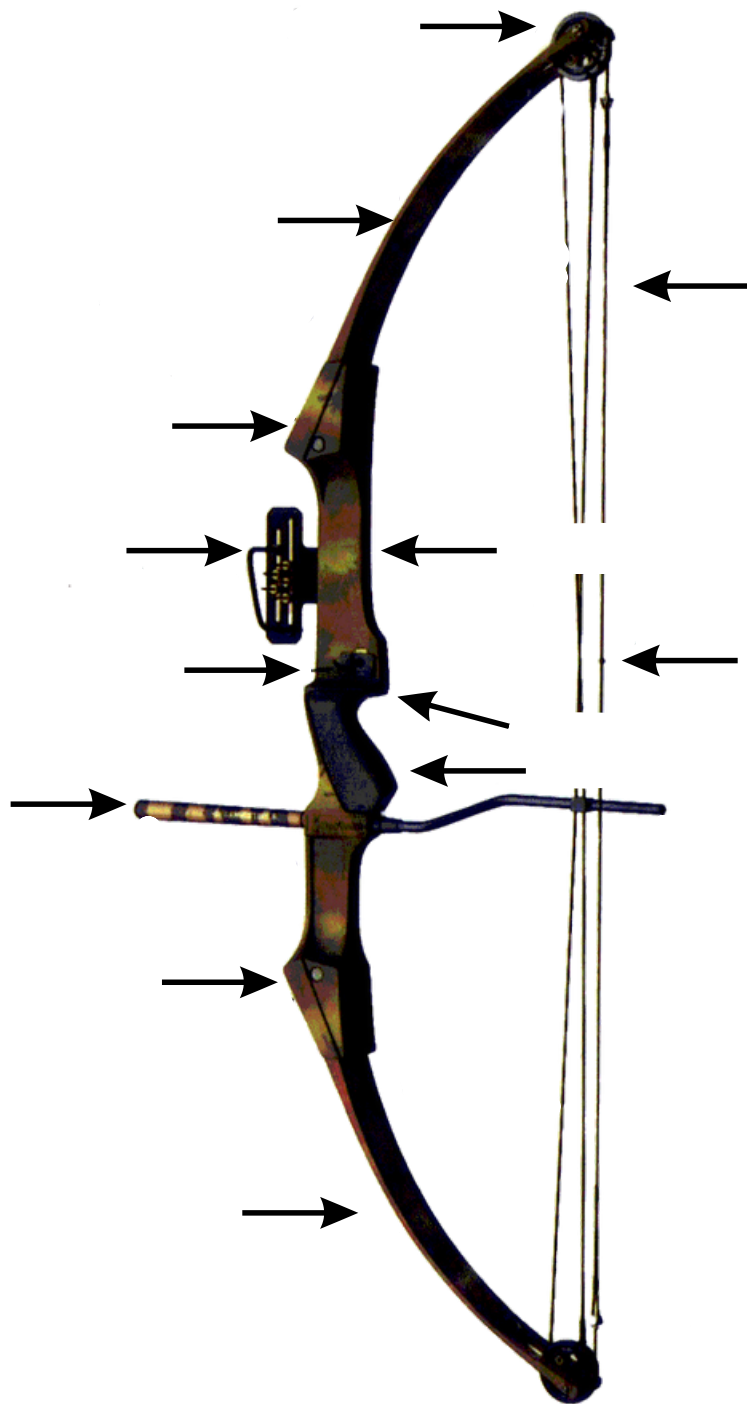
Parts of a Bow





Parts of a Bow Worksheet

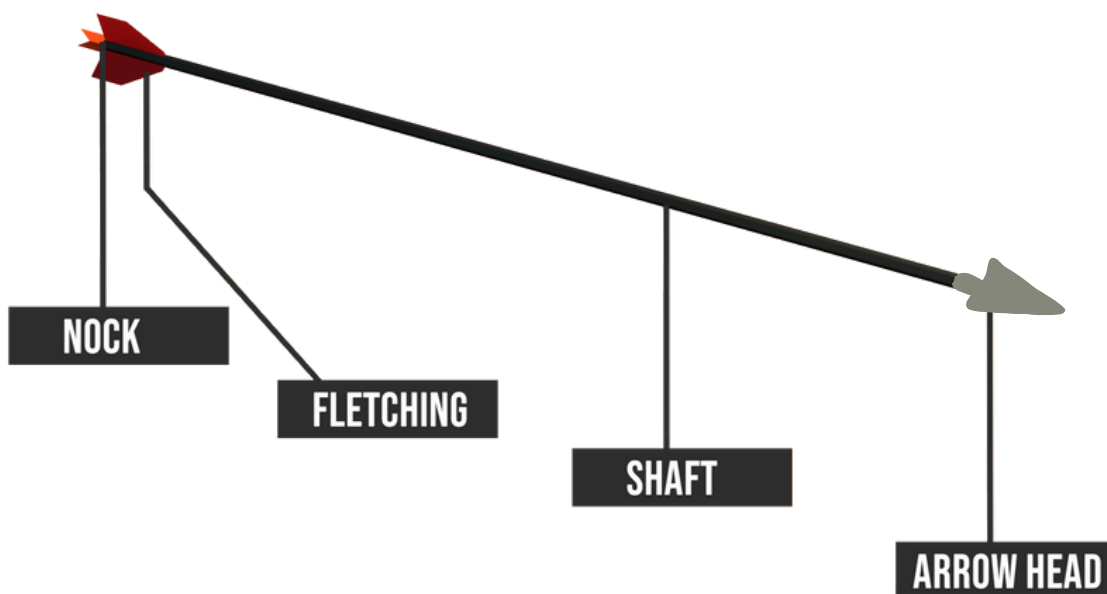
Wordbank



- 1 CAM
- 2 Bowstring
- 3 Upper Limb
- 4 Sight Window
- 5 Bowsight
- 6 Upper Draw Weight Adjustment Bolt
- 7 Lower Draw Weight Adjustment Bolt
- 8 Hunting Stabilizer
- 9 Arrow Rest
- 10 Arrow Shelf
- 11 Nocking Point
- 12 Grip
- 13 Lower Limb



Parts of an Arrow

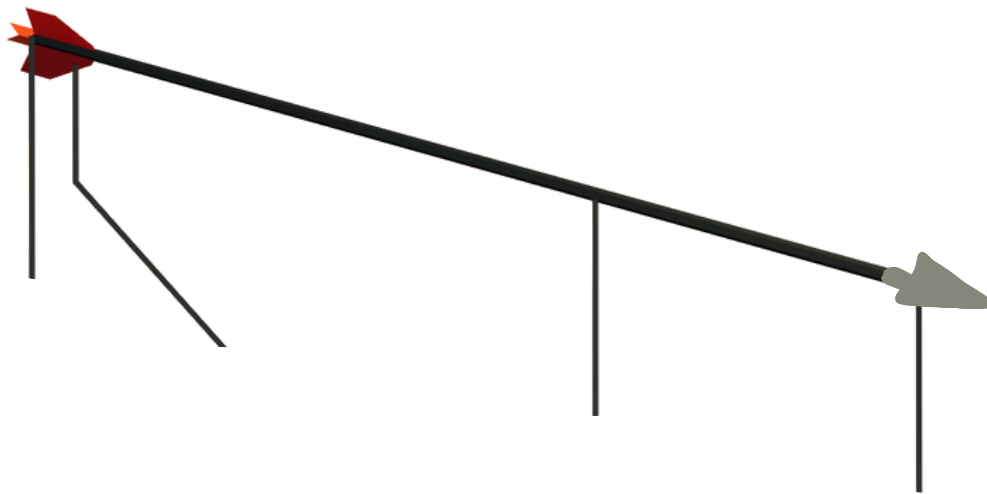




Parts of an Arrow Worksheet

Wordbank

- 1 Arrow head
- 2 Fletching
- 3 Nock
- 4 Shaft





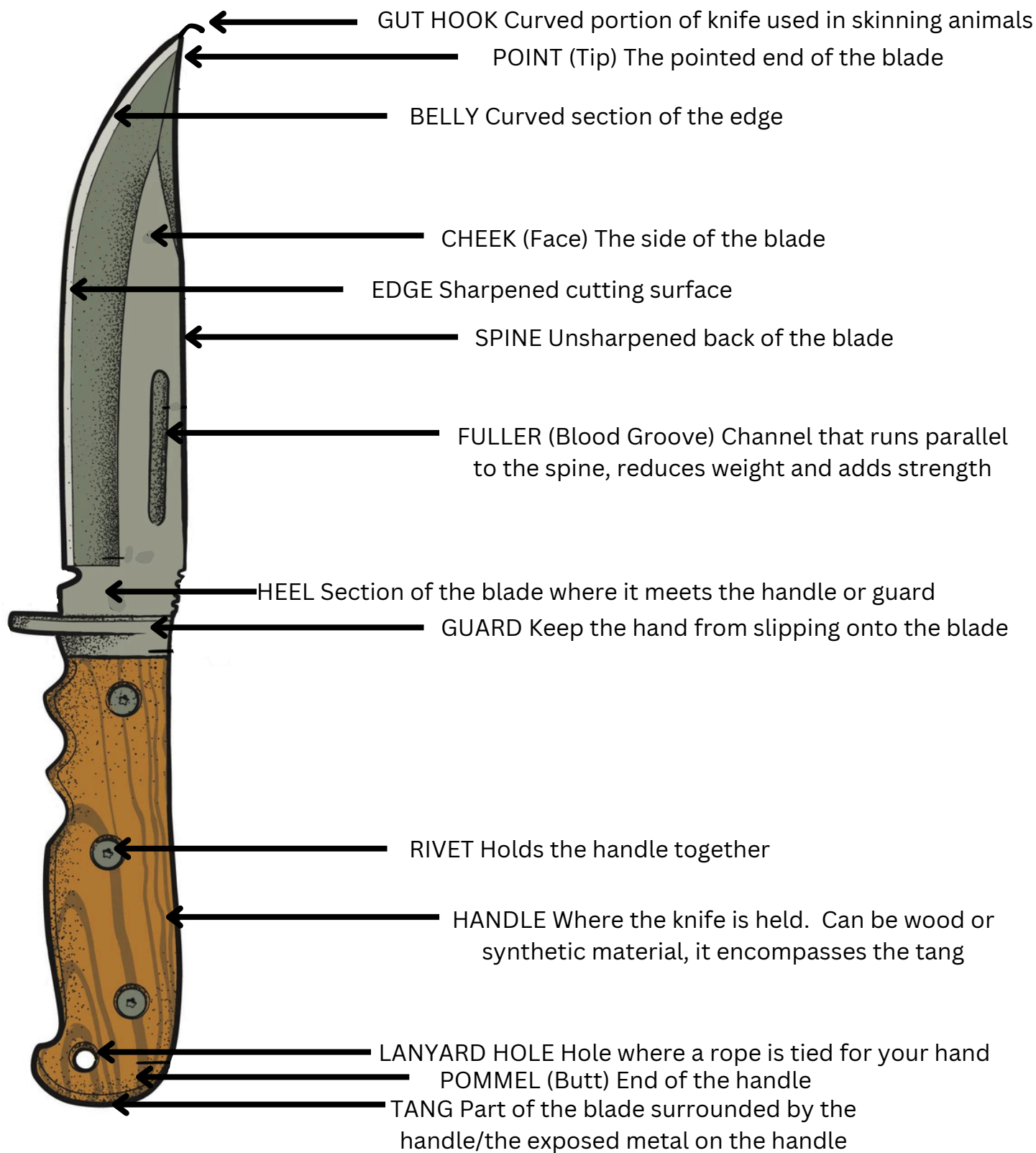
Parts of a Knife- Patch Requirements

To Earn the RA Knife Patch you have to...

1. Know the parts of a knife as given on the RA Parts of a Knife flyer
2. Take a written quiz on the Parts of a Knife (you can only miss 2; you may take the quiz multiple times)
3. Know by site the "4 Types of Knives"
4. Lads (1st-3rd Grade) - Open and close a knife safely
5. Crusaders (4-5th Grade) - Open and close a knife safely; remove 6" of bark from a stick of your choice

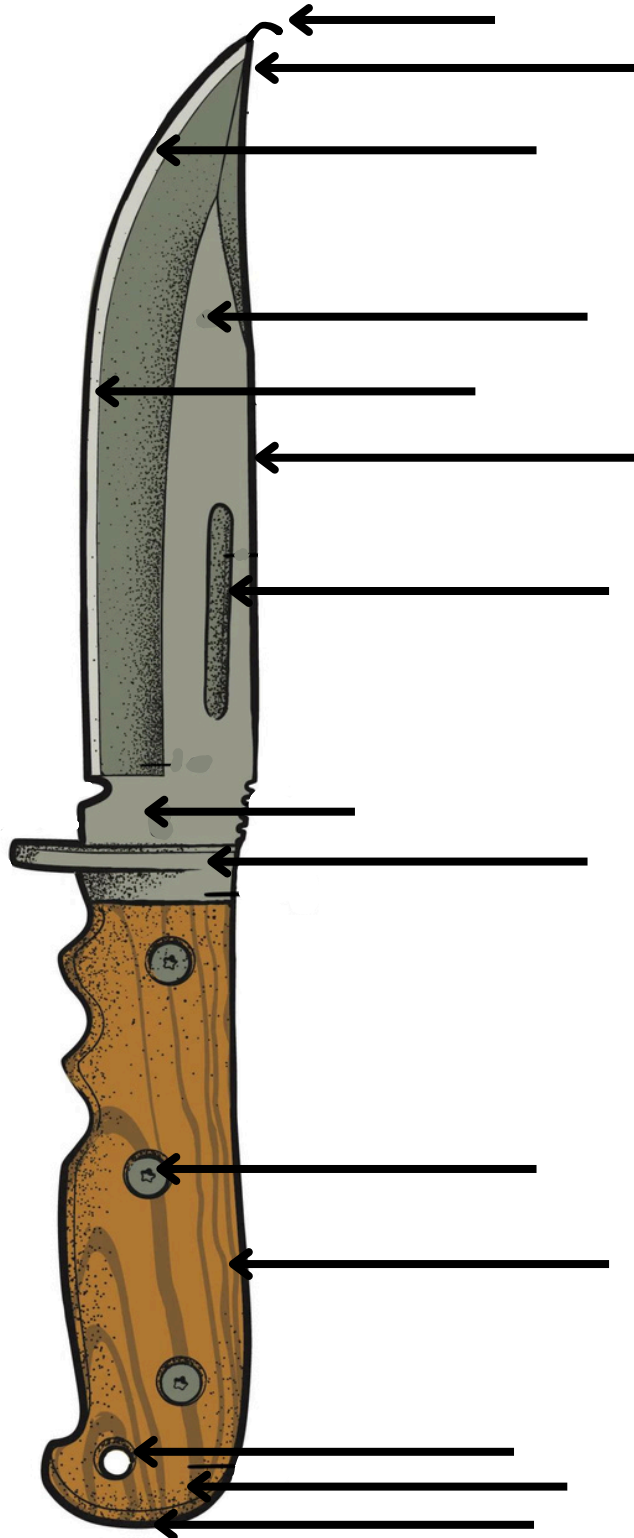


Parts of a Knife





Parts of a Knife Worksheet



WORD BANK

GUT HOOK

TANG

POMMEL

FULLER

HEEL

POINT

RIVET

SPINE

LANYARD HOLE

GUARD

HANDLE

BELLY

CHEEK

EDGE



Types of Knots

FISHERMAN'S KNOT:

STEP ONE:



STEP TWO:



STEP THREE:



STEP FOUR:



STEP FIVE:



SURGEON'S LOOP KNOT:

STEP ONE:



STEP TWO:



STEP THREE:



STEP FOUR:



PALOMAR KNOT:

STEP ONE:



STEP TWO:



STEP THREE:



STEP FOUR:



Images from



MOSSY OAK



Air Rifle Patch Requirement

To Earn the RA Air Rifle Patch you have to...

1. Know the RA Gun Safety Rules
2. Complete the Gun Part ID Worksheet (you can only miss 1; you may take the quiz multiple times)
3. Know how to hold an RA Air Rifle safely
4. Lads (1st-3rd Grade) - Hit 5 targets out of 10
5. Crusaders (4-5th Grade) - Hit 8 targets out of 10

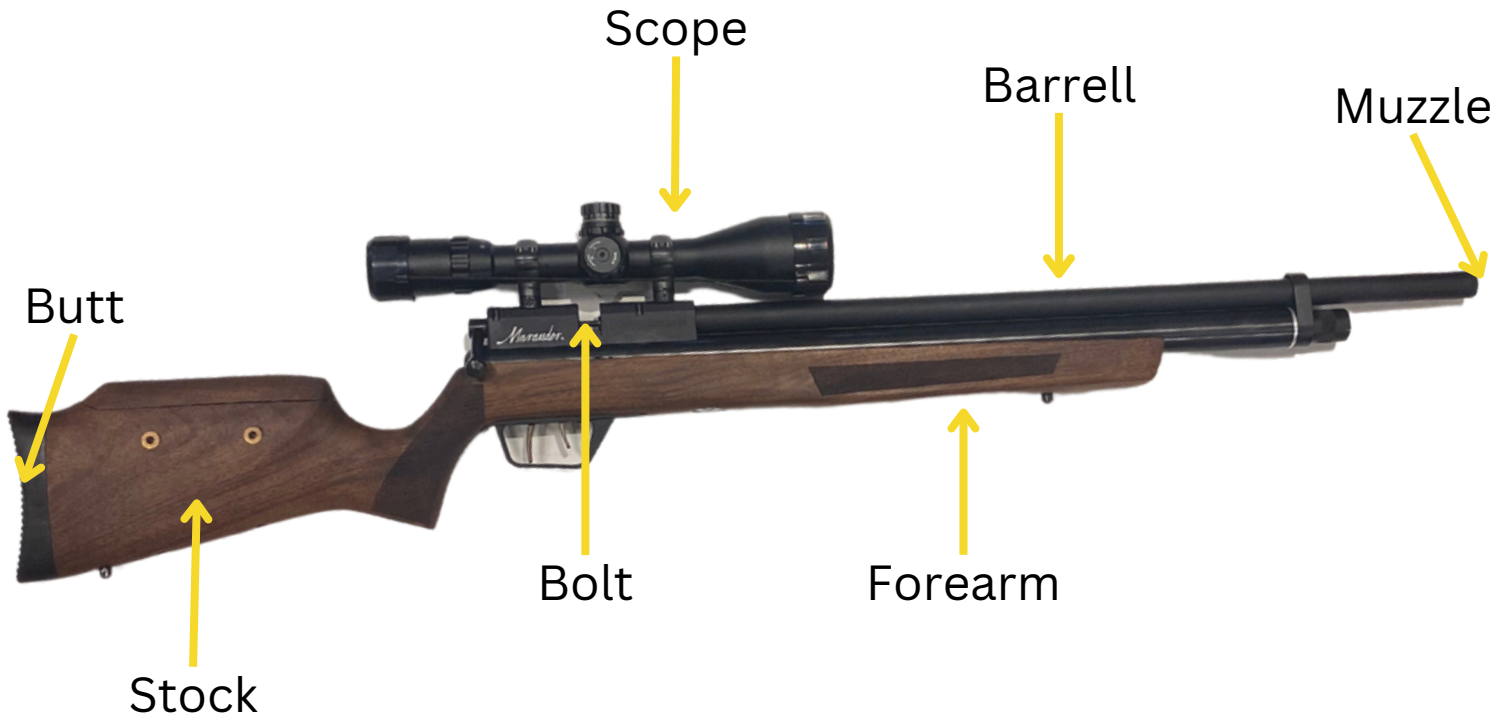


RA Gun Safety Rules

1. Treat every firearm like it is loaded.
2. When you are handling any gun always have the safety on.
3. Muzzle Control – muzzle is either down range (toward your target) or in an upward position.
4. Never handle a gun unless given permission by the adult in charge.



Air Rifle Part ID





Air Rifle Part ID Worksheet



Word Bank

1. Bolt Handle
2. Stock
3. Forearm
4. Butt
5. Bolt
6. Trigger
7. Safety
8. Muzzle
9. Scope
10. Barrell



RA Derby Car

Car Schedule

Week 1 - 1/15/25 - Draw Profile Cut Final Dimensions Weigh, route and wood Putty Cars

Week 2 - 1/22/25 - Sand Car to final dimensions and Prime

Week 3 - 1/29/25 - Final Paint & Primer

Week 4 - 2/5/25 - Final Paint & Detail Paint - Axel polishing starts

Week 5 - 2/12/25 - Axel polishing and wheel install

Week 6 - 2/19/25 - Test and Tune

Week 7 - 2/26/25 - Final wrap-up of vehicle and weigh in

Race Day 3/2/25

If you miss a week or start late do not worry, you can make up time or we will have partially finished cars you can use to get caught up.

Car Specifications

I. Body Specifications - only provided pinewood blocks can be used

·Width - not to exceed 2 ¾ inches (7cm)

·Length - not to exceed 7 inches (17.8cm)

·Height - overall should not exceed 6 1/2 inches. Min height front edge with wheels 3/4 inch to rest on starting peg

·Weight - not to exceed 5.0 ounces - 143.4 grams measured on Official Race Scale

oWe will weigh the Car before we route them and issue you enough weight to reach 4.5 oz

oAt final weigh in you will have the opportunity to add or subtract weight to get to 5oz

·Wheelbase - Can be extended. Standard wheelbase is 4 3/8 inches from center of front axle to center of back axle. Any wheelbase can be used. Wheels must be directly across from one another.

·Body design may be enhanced by adding other stable materials such as plastic, metal or details. All additions must be firmly attached and conform to size specifications. No loose materials will be allowed on the cars.

·No part of the car's body, wheels, or attachments can extend beyond the starting peg on the track what so ever. Additionally, the wheels may not extend beyond the rear of the car or past the front of the car - the length is not to exceed 7 inches.



RA Derby Car

II. Wheels - Only wheels provided are allowed to be used

- Outer wheel surface may be sanded, shaved, lathed or polished to remove any imperfections, true roundness, remove mold castings and burrs, but must not be reshaped in any way.
- The following wheel modifications are NOT Allowed
 - oNo Rounding of the wheel treads – they must remain flat.
 - oNo Grooving, H-cutting, V-cutting, Crowing, Tapering or Dishing
 - oNo Altering the wheel profile No Drilling sidewalls No Filling of any wheel surface
- Coning the hubs, truing the inside edge of the wheel, and removing the outer hub step down is allowed.
 - oWheel Bore treatment is allowed including polishing, sanding, filing or redrilling
- There must be at least four wheels on the car, however it is not required that all four wheels make contact with the track surface – one wheel may be lifted from the track surface.
 - oEach wheel must be mounted on an axle, on the outside of the car, on the side of the car.
 - oWheels may not be greater than 10 degree of an angle from the body of the car
 - oEach wheel must be attached by an axle - no guide pins allowed
 - oWheels must be installed directly across from one another
 - oNon-Dominant / Lifted wheels must meet wheel specifications

III. – Axles - Only Nail type axles that are provided are

- Modifications to the Axles are allowed that include straightening, sanding, polishing, canting, grooving, beveling & tapering of axle head as long as the Diameter of the Axle is not reduced the Diameter
- Axles can be mounted by drilling Axle holes or inserted into the slots on car.

IV – Lubrication - Graphite

V. – Prohibited Items that can NOT be used

- Magnets, springs or suspension systems of any type.
- Starting devices, finish line devices, propellants, or propulsion systems
- Wet paint, or Sticky substances Glass or excessively fragile parts
- Electronic or lighting devices Bearings