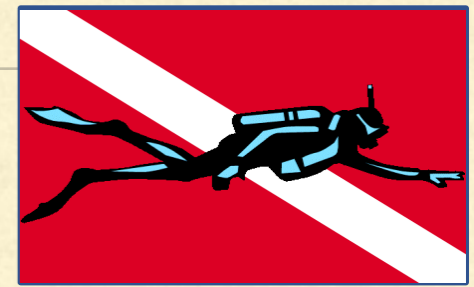


FLORIDA SPRINGS



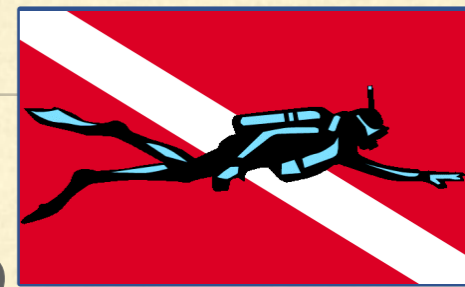


WHAT IS A SPRING ????

Any natural aquatic environment where fresh water flows from an aquifer to the earth's surface

Aquifer: underground layer of water-bearing permeable rock, rock fractures or unconsolidated materials (gravel, sand)

Body of rock and/or sediment that holds groundwater



HOW ARE SPRINGS FORMED ?

Geographical structures force large amounts of water to the surface

1. Water soaks in

2. Percolates & filters through

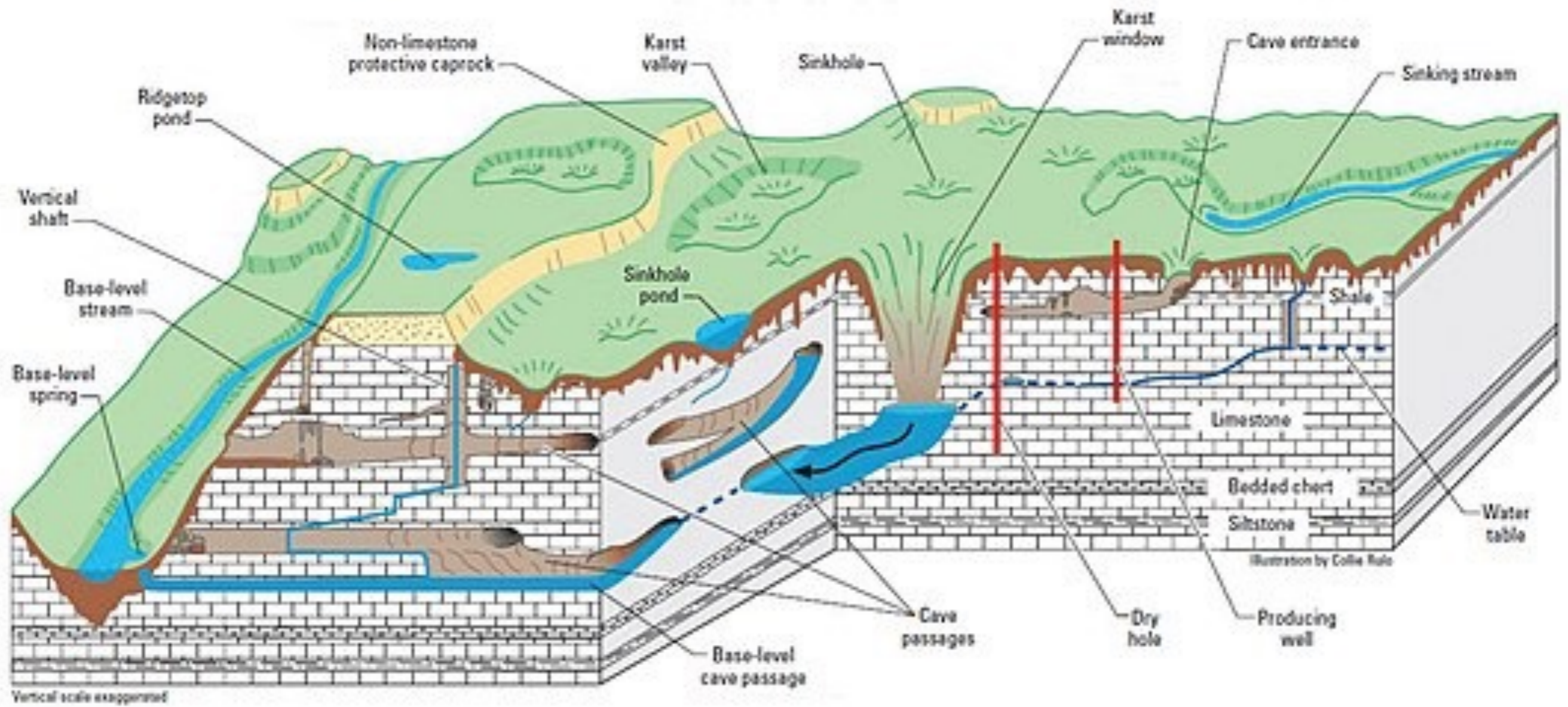
3. Saturation drives water to surface

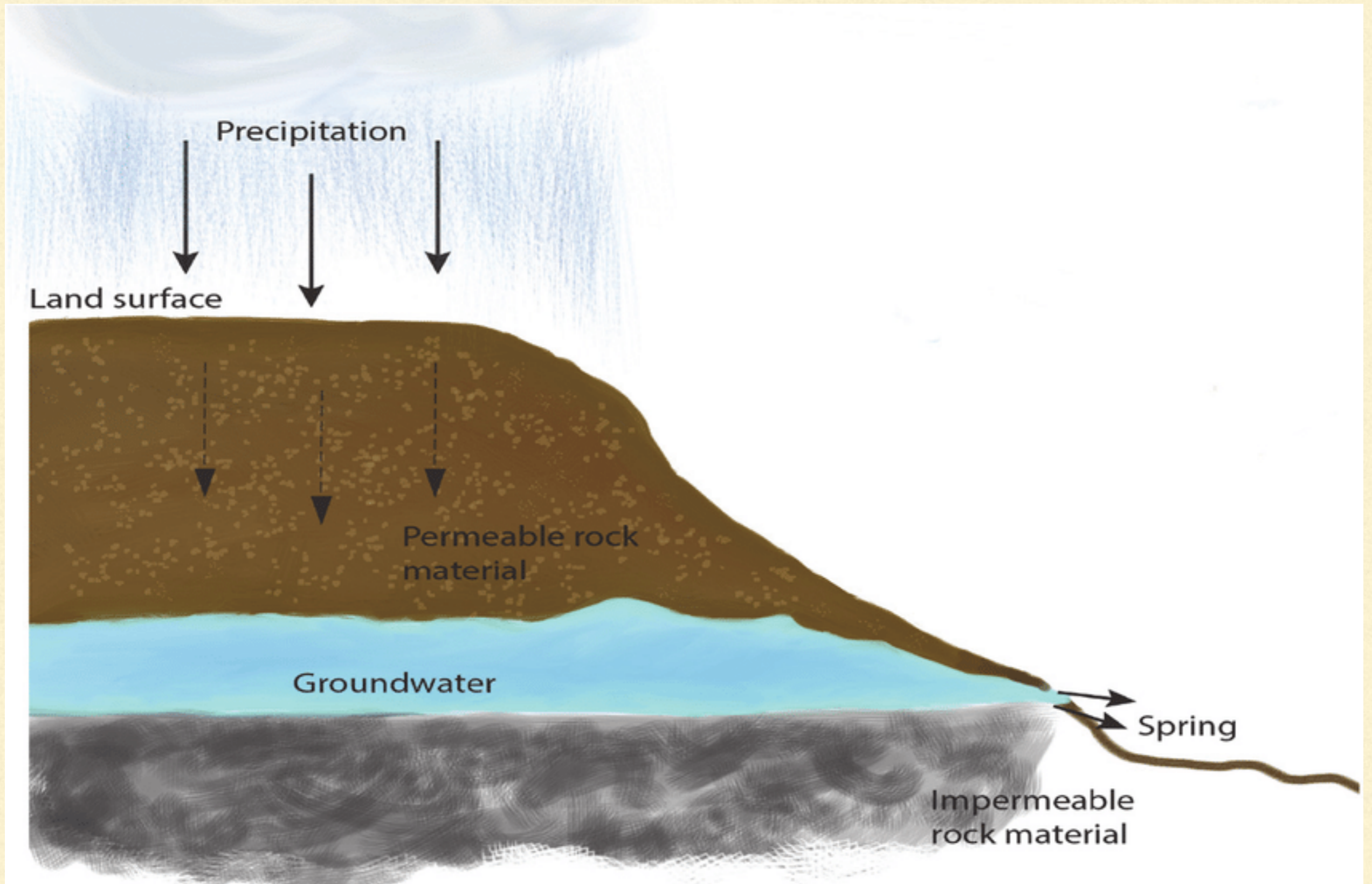
4. Takes few days to hundreds of years

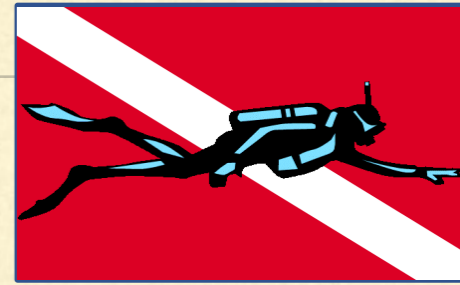
Sinkhole

Karst
20% of US

Ceynote







CLASSIFICATION & TYPES

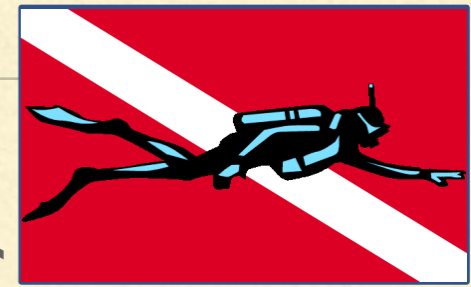
Flow: 1st Magnitude 65 mil gallons / day ...33 in Florida
2nd Magnitude 6.5-65
3rd Magnitude .65-6.5
8 Magnitudes

Types:

Shore

Boat

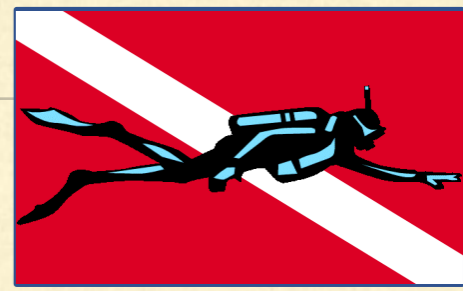
Drift



THERMOCLINES & HALOCLINES

Thermocline: Water temp changes abruptly with depth

Haloclines: Water type changes abruptly at depth (salinity)



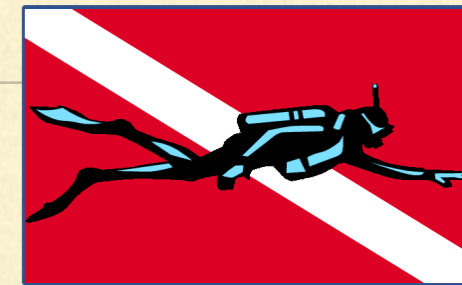
WHY DIVE IN A SPRING ?

Advantages:

Accessibility
Less expensive ???
Visibility (Tanic)
Constant temp...72

Disadvantages:

Overhead environment
Silt
Crowds
Flow...in & out
Emergencies



EQUIPMENT

Extras

Lights (allowed?)

Tarp or mat

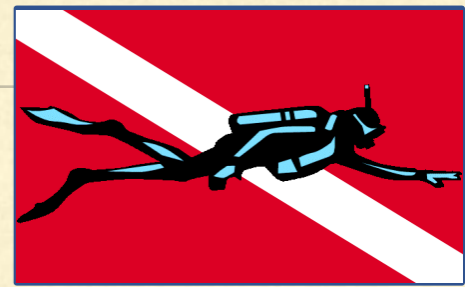
Lines, reels, floats, flags

Cutting tool

Save-A-Dive kit

First aid, O2, AED

SAFETY



EAP

Conservative

Phone

Streamline gear

Silting

Cert level

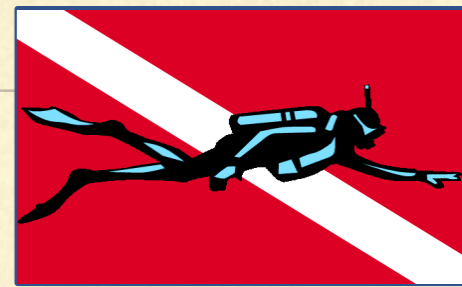
Flow rate

Water

Overhead

Finning & falling

Buoyancy



PLANNING

Type of spring... equip accordingly

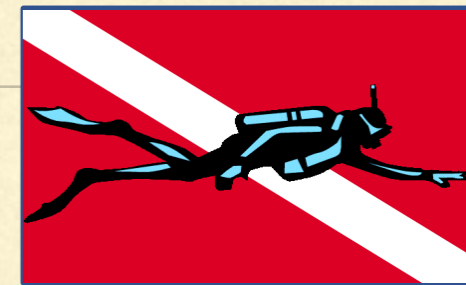
Private? Park?

Cert level and cards

Contingency planning

Facilities

Logistics

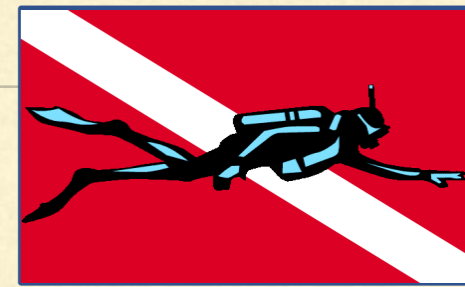


CAVERN OR CAVE ?

Can you see the exit ?????

Training required !!!!





WHAT TO DO & SEE

Refresher

Clean your gear

Check new gear

Check serviced gear

Practice buoyancy

Practice skills



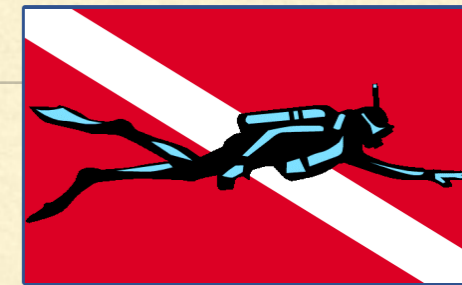
Fossils

Carvings

Bones

Fish

Turtles



LOCAL SPRINGS

Madison Blue

Alexander Springs

Ginnie Springs

Juniper

Blue Grotto

Manatee

Devils Den

Peacock Springs

Rainbow Springs

Blue Spring

Crystal Springs

Weekie Wachee

