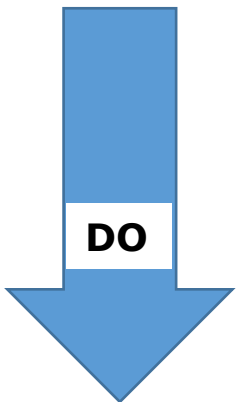


### Increases Dissolved Oxygen in Water:

- **Pressure** - higher barometric pressure (lower altitude)
- **Depth** - shallow water has greater interface with surface and Oxygen in atmosphere
- **Turbulence** - water that is tumbling or bubbling has a high mixing with air at surface
- **Vegetation** - aquatic plants perform photosynthesis and produce oxygen
- **Time of day** - highest at late afternoon/sunset
- **Temperature** - Cooler water
- **Salinity** - less salts in water allows for more oxygen



### Decreases Dissolved Oxygen in Water:

- **Pressure** - Lower barometric pressure (higher altitude)
- **Depth** - deep water has no interface with surface and Oxygen in atmosphere
- **Turbulence** - water that is stagnant or still has no mixing with air at surface
- **Vegetation** - lack of aquatic plants means no photosynthesis and no oxygen production
- **Time of day** - lowest at early morning/ sunrise
- **Temperature** - warmer water
- **Salinity** - more salts in water inhibits solubility of oxygen in water
- **Algae blooms** due to excess N and Ph - increased BOD
- **Cellular Respiration/Decomposition** - increased BOD, uses up DO