OSG

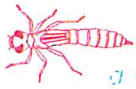
WORK FOR CLEAN RIVERS - HELP RESTORE STREAMBANKS AND FISH HABITAT

Temperature

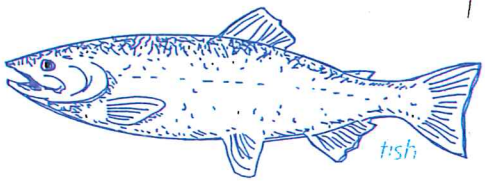
Aquatic organisms breathe oxygen that is dissolved in the water.

- Warmer water may mean less dissolved oxygen is available for aquatic animals to breathe.
- Colder water can hold more dissolved oxygen.

Rapid changes in water temperature can kill aquatic organisms.



°C	°F	Preferred Temperature
50	122	**Warm** Above 68° F (20° C) dragonflies, bass, carp, catfish
40	98.6	
30	86	
20	68	**Cool** 55-68° F (13-20° C) Chinook, coho, sturgeon, cutthroat trout, mayflies
10	50	
0	32	**Cold** Below 55° F (13° C) Steelhead, caddisflies, stoneflies, salmon eggs and alevins
-10	14	
-20	0	



CITY OF PORTLAND ENVIRONMENTAL SERVICES WORKS FOR CLEAN AND HEALTHY WATERSHEDS

WE ALL LIVE IN A WATERSHED - REDUCE - REUSE - RECYCLE - FOR A HEALTHY ENVIRONMENT

HELP PREVENT POLLUTION - HELP KEEP OUR RIVERS AND STREAMS HEALTHY

OSG

WORK FOR CLEAN RIVERS - HELP RESTORE STREAMBANKS AND FISH HABITAT

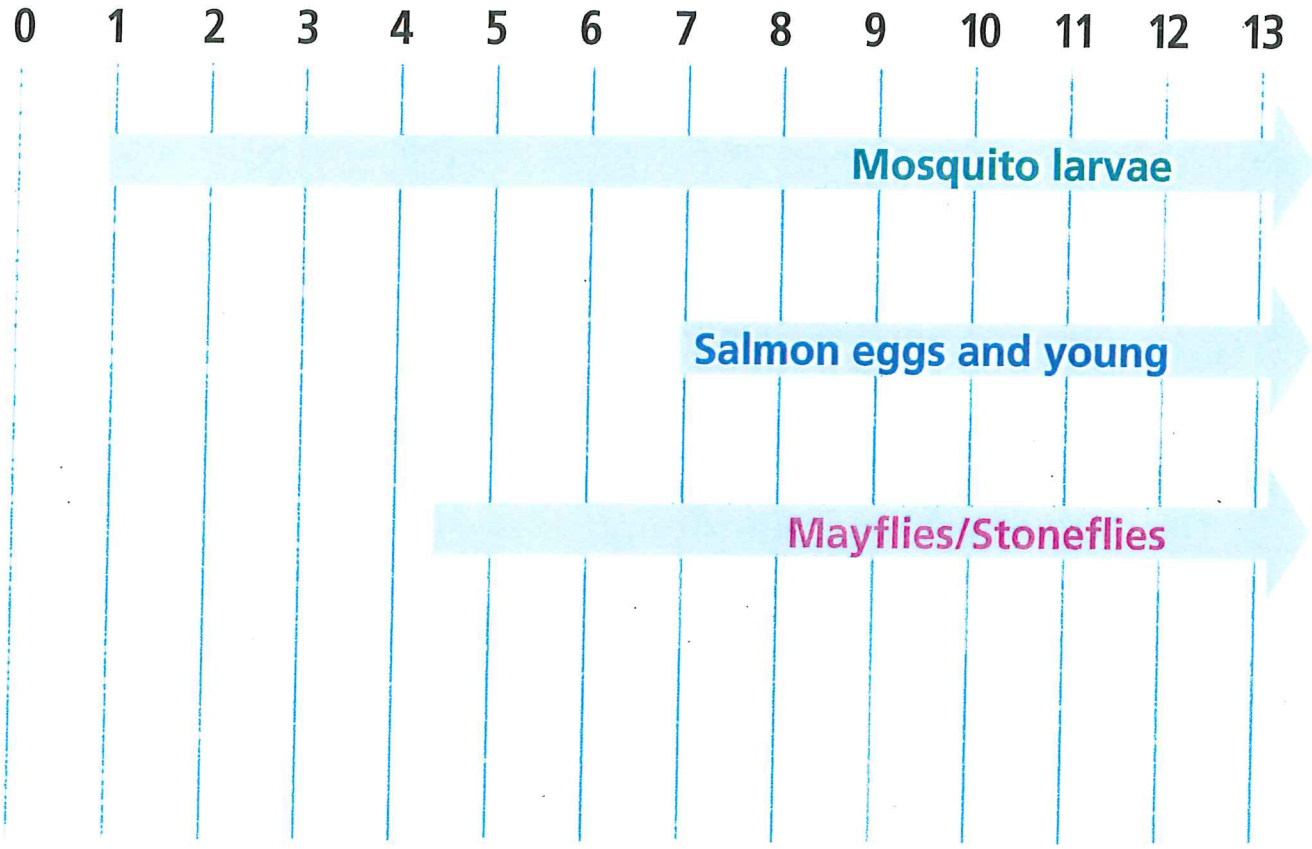
Dissolved Oxygen (D.O.)

Definition: The amount of oxygen in the water.

Importance: Required by aquatic life to breathe.

How is it measured? In Parts Per Million (PPM).

(some scientists use mg/l or percent saturation)



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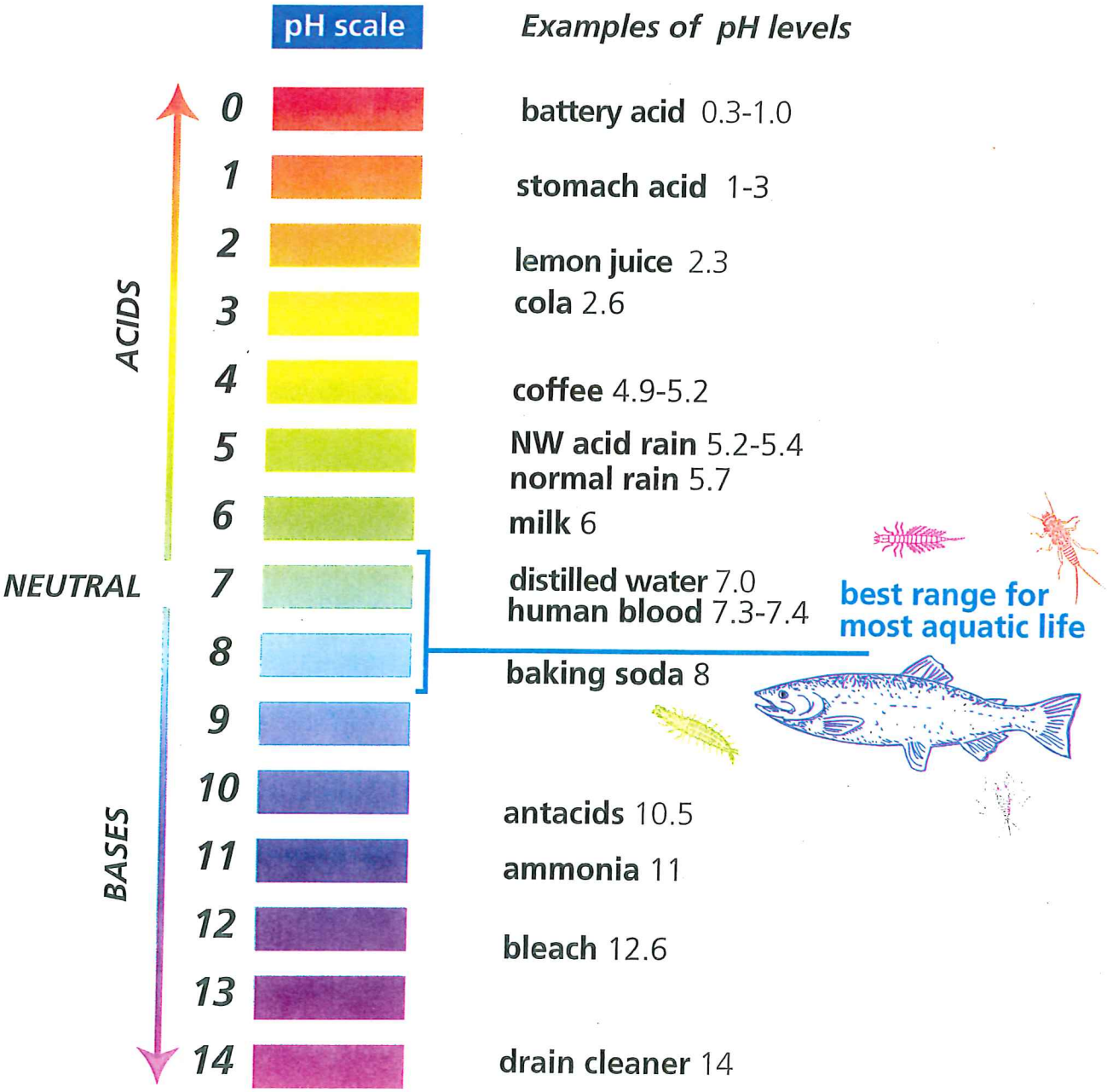
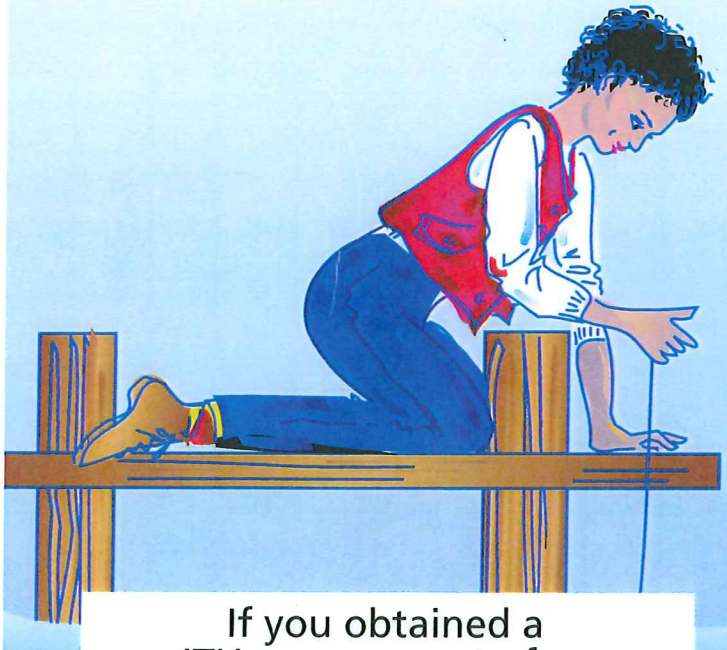
pH

Definition: Measure of how acidic or basic (alkaline) the water is.

Importance: Pollution can change the pH of water.
If water is too acidic or too basic aquatic life can die.



Turbidity Chart



Turbidity: A measure of the cloudiness of the water.

Why is it Important?

- Sediment can smother eggs.
- Sediment can clog the gills of fish and other stream animals making it hard for them to breathe.
- Increased turbidity can result in warmer water, leading to lower levels of dissolved oxygen.

If you obtained a JTU measurment of . . .	You would be able to see down this far with a Secchi Disk.
100	1 inch
90	2 inches
80	3 inches
70	4 inches
60	5 inches
50	6 inches
40	8 inches
30	10 inches
20	1 foot
10	3 feet
0	5 feet