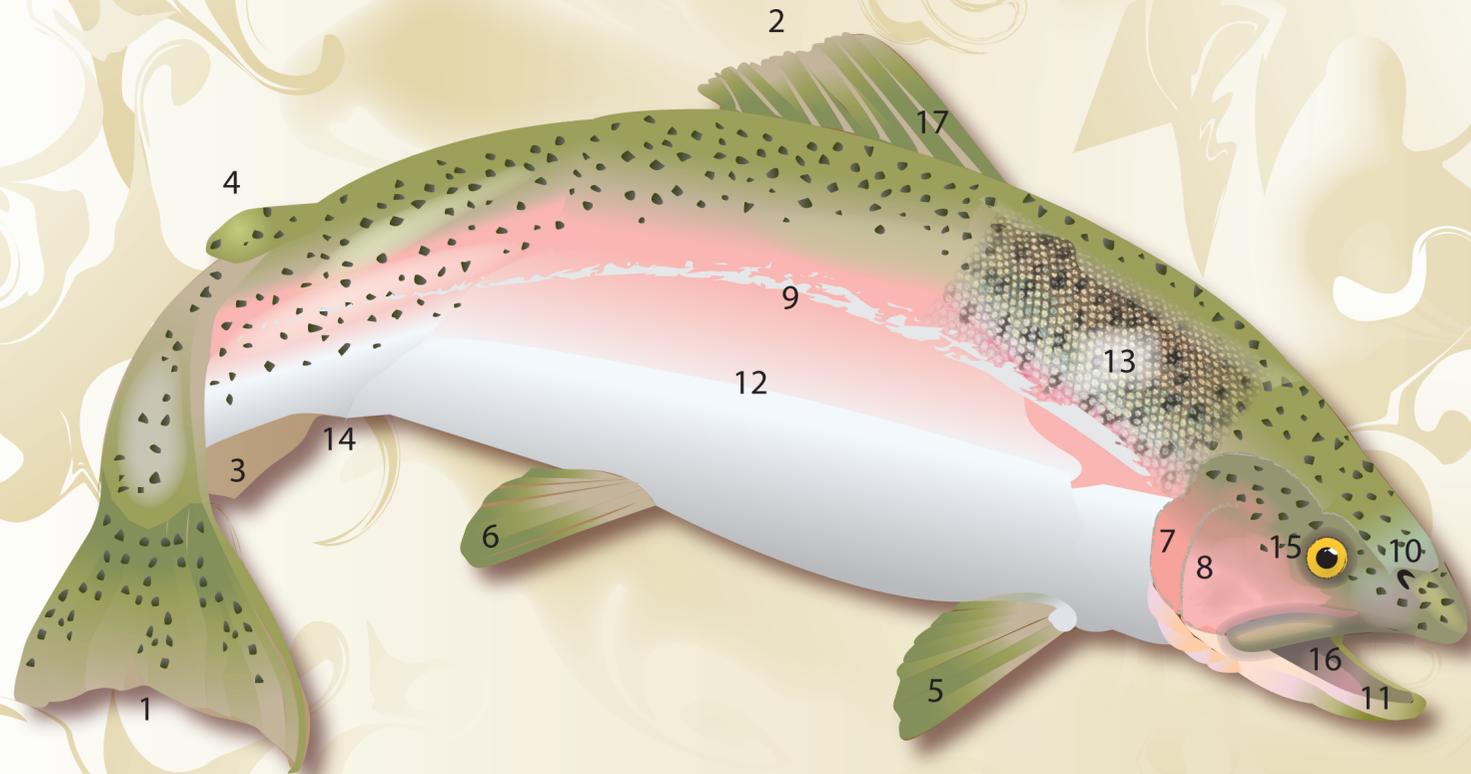




# FISH ANATOMY

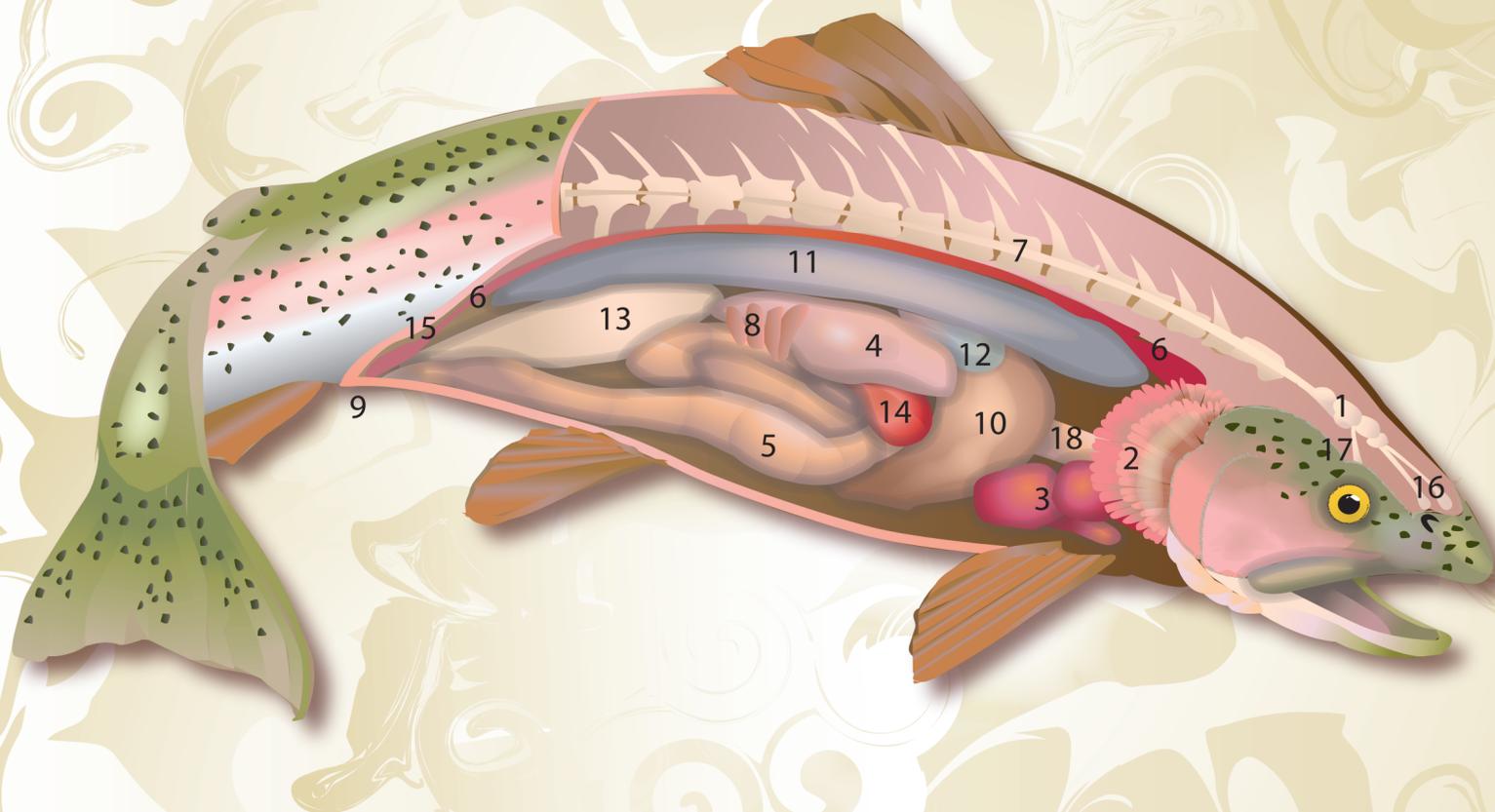


EXTERNAL

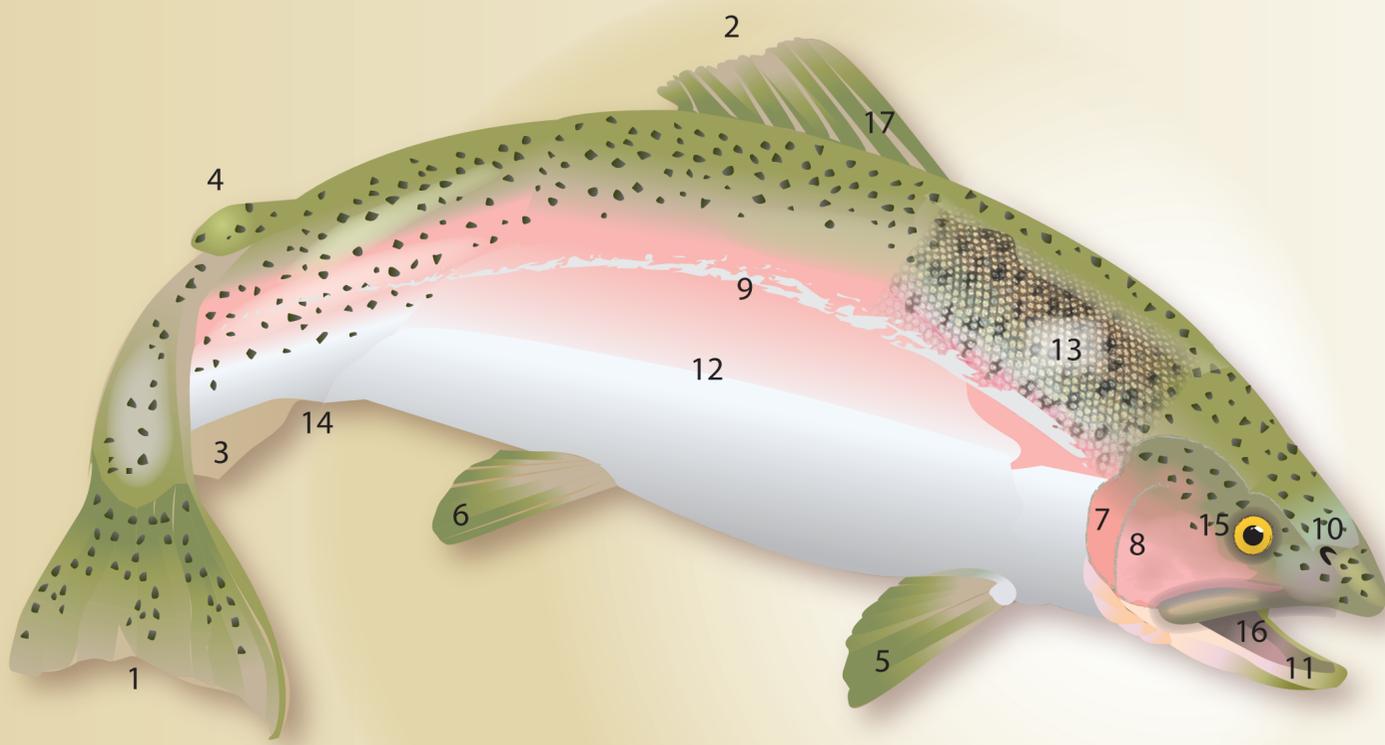


- Caudal Fin
- Dorsal Fin
- Anal Fin
- Adipose Fin
- Pectoral Fins
- Pelvic Fin
- Gills
- Operculum
- Lateral Line
- Nare
- Kype
- Mucous Scales
- Vent
- Eye
- Tongue
- Fin Rays

INTERNAL

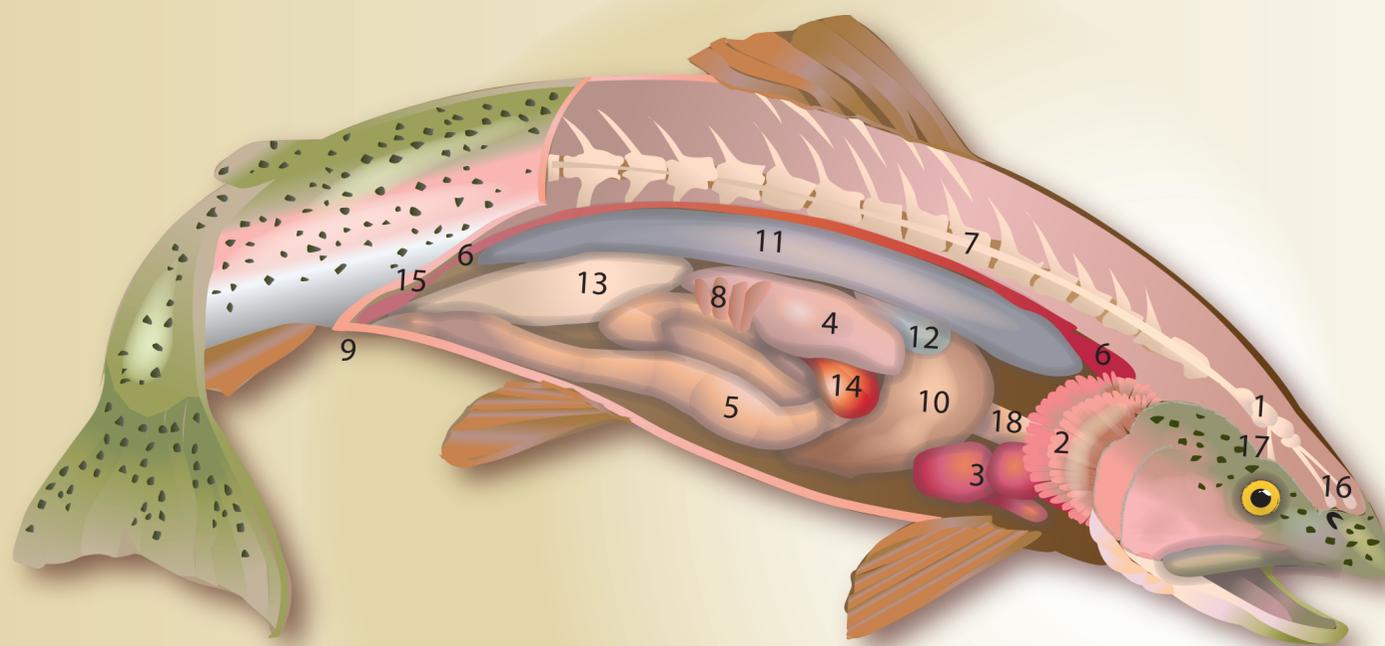


- Brain
- Gills
- Heart
- Stomach
- Intestine
- Kidney
- Spine
- Pyloric Ceca
- Vent
- Liver
- Swim Bladder
- Gall bladder
- Gonad
- Spleen
- Urinary bladder
- Olfactory tract
- Optic nerve
- Esophagus



## EXTERNAL

- 1 **Caudal Fin:** Pushes and steers the trout
- 2 **Dorsal Fin:** Helps to keep the trout steady
- 3 **Anal Fin:** Also helps to keep the trout steady
- 4 **Adipose Fin:** Stores fat
- 5 **Pectoral Fins:** Steer and slow down the trout
- 6 **Pelvic Fin:** Helps the trout swim up and down
- 7 **Gills:** Take in oxygen and let out carbon dioxide
- 8 **Operculum:** Protects the gills (gill cover)
- 9 **Lateral Line:** Senses movement around the trout
- 10 **Nare:** Smells odor underwater
- 11 **Kype:** Bottom Jaw
- 12 **Mucous:** Coating that keeps the trout healthy
- 13 **Scales:** Covers and protects the trout - makes it smooth
- 14 **Vent:** Where the waste leaves
- 15 **Eye:** The organ of sight
- 16 **Tongue:** A trout's tongue has teeth that help grab prey
- 17 **Fin Rays:** Supports fins



## INTERNAL

- 1 **Brain:** Processes senses and control activity
- 2 **Gills:** Removes waste gases from the blood and allows the blood to pick up oxygen
- 3 **Heart:** Pumps blood through the body
- 4 **Stomach:** Starts to digest the food
- 5 **Intestine:** Digest food some more
- 6 **Kidney:** Filters waste from blood
- 7 **Spine:** Carries messages from brain to body
- 8 **Pyloric Ceca:** Hold and break down hard to digest food
- 9 **Vent:** Where the waste leaves
- 10 **Liver:** Produces chemicals to help digest food
- 11 **Swim Bladder:** Full of air to help the trout float in the water
- 12 **Gall bladder:** Stores bile that is used to help digest food
- 13 **Gonad:** Produces sperm in males or eggs in females
- 14 **Spleen:** Produces red blood cells and hormones
- 15 **Urinary bladder:** Stores urine from the kidneys
- 16 **Olfactory tract:** Contains nerves that pick up odors in the water
- 17 **Optic nerve:** Carries information from the eye to the brain
- 18 **Esophagus:** Carries food from the mouth to the stomach