

FISH CLASSIFICATION LAB ANSWERS KEY Textbook

Fish classification lab answers key is an essential resource for students and educators involved in biology labs focusing on ichthyology?the study of fish. Understanding fish classification not only enhances knowledge of aquatic biodiversity but also aids in identifying various species accurately. This article provides a comprehensive guide to fish classification lab answers, breaking down key concepts, classifications, and typical lab activities to help students excel in their coursework and practical assessments.

Understanding Fish Classification

Fish classification involves categorizing fish into hierarchical groups based on their physical characteristics, evolutionary relationships, and genetic information. In a typical fish classification lab, students learn to identify fish species, understand their anatomical features, and classify them into appropriate taxonomic groups.

What Is Taxonomy in Fish Classification?

Taxonomy is the science of naming, describing, and classifying organisms. In fish classification, taxonomy helps organize fish species into categories such as class, order, family, genus, and species based on shared features and genetic relationships.

Importance of Fish Classification

- Facilitates identification and study of fish species
- Supports conservation efforts by identifying endangered species
- Helps understand evolutionary relationships among different fish groups
- Assists in fisheries management and ecological research

Key Fish Taxonomic Groups

Fish are broadly classified into several major groups based on their anatomical and physiological features.

Classified into Major Groups:

- **Agnatha (Jawless Fish)**
- **Chondrichthyes (Cartilaginous Fish)**
- **Osteichthyes (Bony Fish)**

Details of Major Fish Classes

Agnatha (Jawless Fish)

Agnatha includes primitive fish lacking jaws and paired fins. They are characterized by a cartilaginous, eel-like body and a round, sucker-like mouth.

- Examples: Lampreys and hagfish
- Features: No jaws, no scales, cartilaginous skeleton
- Lab focus: Identifying lampreys by their elongated body and oral disc

Chondrichthyes (Cartilaginous Fish)

These fish have a skeleton made of cartilage rather than bone. They include sharks, rays, and skates.

- Features: Cartilaginous skeleton, placoid scales, multiple gill slits
- Examples: Great white shark, stingrays
- Lab focus: Recognizing shark fin structure, gill slits, and skin texture

Osteichthyes (Bony Fish)

This is the largest class of fish, characterized by a bony skeleton. They display a wide variety of forms and habitats.

- Subgroups:
 - **Lobed-finned Fish (Sarcopterygii)**
 - **Ray-finned Fish (Actinopterygii)**
- Features: Bony skeleton, operculum covering gills, swim bladder
- Examples: Salmon, goldfish, catfish
- Lab focus: Differentiating between ray-finned and lobe-finned fish based on fin structure

Fish Identification in the Lab

In a typical fish classification lab, students examine physical features to identify and classify fish specimens accurately.

Steps for Fish Identification

- Observe external features such as body shape, fin arrangement, and scales
- Note the presence or absence of jaws and paired fins
- Identify unique features like mouth type, gill slit number, and skin texture
- Compare findings with identification guides or keys
- Classify the fish into the correct taxonomic group

Common Lab Questions and Answers

- **Q: How can you distinguish a cartilaginous fish from a bony fish?**
 - A: Cartilaginous fish (Chondrichthyes) have a skeleton made of cartilage, multiple gill slits, and rough skin with placoid scales. Bony fish (Osteichthyes) have a skeleton of bone, a single gill cover (operculum), and smoother skin.
- **Q: What features are used to identify a fish as a member of the class Agnatha?**
 - A: Agnatha fish lack jaws, scales, and paired fins. They have elongated, eel-like bodies and a round mouth adapted for suction feeding.
- **Q: How do you differentiate between ray-finned and lobe-finned fish?**
 - A: Ray-finned fish (Actinopterygii) have fins supported by thin, flexible rays, whereas lobe-finned fish (Sarcopterygii) possess fleshy, lobed fins with a central core of bones.

Using Fish Classification Keys

In lab activities, students often use dichotomous keys?step-by-step guides that lead to the identification of fish species based on observable traits.

How to Use a Fish Identification Key

- Start with broad features such as jaw presence or fin structure
- Follow the key's dichotomous choices based on your specimen's features
- Proceed through the steps until you reach the species or group

Sample Fish Classification Key Snippet

Q1. Does the fish have jaws?

- Yes ? Go to Q2
- No ? Agnatha

Q2. Are there paired fins present?

- Yes ? Go to Q3
- No ? Identify as a cartilaginous fish (shark or ray)

Q3. Are the fins supported by rays?

- Yes ? Ray-finned fish (Actinopterygii)
- No ? Lobe-finned fish (Sarcopterygii)

Tips for Success in Fish Classification Labs

- Familiarize yourself with fish anatomy diagrams and terminology before the lab
- Practice observing features under the microscope or with hand lenses
- Use multiple identification features rather than relying on a single trait
- Refer to identification guides and classification keys regularly
- Keep detailed notes and sketches of each specimen

Summary

Understanding fish classification and mastering lab techniques are vital for accurate identification and study of aquatic species. The **fish classification lab answers key** provides essential guidance on recognizing major fish groups, their features, and classification methods. By studying the key features such as jaw presence, fin structure, gill slits, and skeleton type, students can confidently classify fish specimens. Utilizing dichotomous keys and following systematic identification procedures will enhance learning outcomes and prepare students for advanced studies in ichthyology, ecology, and conservation biology.

Whether you're a student preparing for a lab practical or an educator designing a teaching module, mastering fish classification concepts and lab techniques ensures a solid foundation in aquatic biodiversity and taxonomy.

Fish Classification Lab Answers Key: An In-Depth Guide

Understanding fish classification is fundamental for students and enthusiasts delving into aquatic biology, ichthyology, or related fields. The Fish Classification Lab Answers Key serves as an essential resource to help learners accurately identify, categorize, and understand the diversity of fish species based on morphological, anatomical, and ecological traits. This comprehensive guide aims to explore every facet of fish classification, highlighting core concepts, common questions, and detailed answers to solidify your knowledge.

Introduction to Fish Classification

Fish classification involves categorizing fish into hierarchical groups based on shared characteristics. It aids in understanding evolutionary relationships, ecological roles, and biodiversity. Fish are among the most diverse vertebrates, with over 33,000 recognized species, making classification both complex and fascinating.

Key goals of fish classification include:

- Identifying species based on physical and genetic traits.
- Understanding evolutionary relationships (phylogeny).
- Facilitating conservation efforts.
- Supporting ecological studies and fisheries management.

Major Groups of Fish

Fish are broadly classified into two major groups, which are further subdivided:

1. Osteichthyes (Bony Fish)

- Characterized by a bony skeleton.
- Examples: Goldfish, salmon, perch.

2. Chondrichthyes (Cartilaginous Fish)

- Skeletons primarily composed of cartilage.
- Examples: Sharks, rays, skates.

Key Features Used in Fish Classification

To accurately classify fish, certain morphological and anatomical features are examined:

- Body Shape and Size: Streamlined, deep-bodied, elongated, compressed.
- Scales: Presence, type (ctenoid, cycloid, placoid), or absence.
- Fins: Number, placement, and type (pectoral, pelvic, dorsal, anal, caudal).
- Gill Structures: Number of gill slits, presence of operculum.
- Skull and Jaw Structure: Types of jaw (terminal, subterminal), teeth arrangement.
- Lateral Line System: Presence and extent.
- Reproductive Methods: Oviparous, ovoviviparous, viviparous.
- Other Features: Swim bladder presence, coloration, and sensory organs.

Classification of Fish Based on Morphology and Anatomy

Understanding the answers to typical lab questions involves in-depth knowledge of these features. Below are common classification aspects and their detailed explanations.

1. Presence or Absence of Scales

- Scaly Fish: Most bony fishes have scales, which serve as protection and aid in hydrodynamics.
- Types of scales:
 - Cycloid scales: Smooth, rounded edges.
 - Ctenoid scales: Have tiny comb-like projections.
 - Placoid scales: Rough, tooth-like, characteristic of cartilaginous fish.
- Scale-less Fish: Some species, such as catfish or eels, lack scales, which may relate to their habitat or evolutionary adaptations.

2. Shape and Types of Fins

- Dorsal Fin: Located on the back, helps in stability.
- Pectoral Fins: Located on the sides, assist in steering.
- Pelvic Fins: Located ventrally, aid in balance.
- Anal Fin: Found near the tail, stabilizes movement.
- Caudal Fin (Tail Fin): Propels the fish forward.

Lab Answer: Fish with a single dorsal fin, symmetrical caudal fin, and well-developed pectoral fins often belong to certain orders like Perciformes.

3. Presence of Operculum

- Operculum: A bony flap covering the gills in bony fishes.
- Significance: It aids in respiration and is absent in cartilaginous fishes.

4. Gill Slits and Gill Covering

- Number of Gill Slits:
- Chondrichthyes: Usually 5-7 gill slits.
- Osteichthyes: Usually covered by operculum, with a single opening.

- Gill Cover (Operculum): Present in bony fishes, absent in cartilaginous fishes.

5. Skeleton Composition

- Cartilaginous Skeletons: Found in sharks and rays.
- Bony Skeletons: Found in most other fish.

6. Reproductive Features

- Fish can be oviparous (lay eggs), ovoviviparous (eggs hatch inside the female), or viviparous (live birth).
- Some lab questions focus on identifying reproductive modes based on external features or internal anatomy.

Common Fish Orders and Their Features

Understanding the classification at an order level is crucial for lab answers. Here are some prominent orders:

1. Order Perciformes (Perch-like fishes)

- Body usually compressed.
- Dorsal fins often divided.
- Examples: Perch, bass, tilapia.

2. Order Cypriniformes (Carp and minnows)

- No teeth in jaws, pharyngeal teeth present.
- Body elongated.
- Scales ctenoid or cycloid.
- Examples: Carps, goldfish.

3. Order Chondrichthyes (Cartilaginous fishes)

- Skeleton made of cartilage.
- Multiple gill slits.
- No swim bladder.
- Examples: Sharks, rays.

4. Order Siluriformes (Catfishes)

- Presence of barbels resembling whiskers.
- Lack of scales.
- Usually possess a venomous spine.
- Examples: Catfish.

5. Order Osteoglossiformes

- Bony fishes with large, toothed tongue.
- Examples: Arowanas.

Sample Lab Questions and Their Detailed Answers

Q1: Identify the fish based on the presence of barbels and lack of scales.

Answer:

This fish is most likely a catfish (Order Siluriformes). Barbels are sensory organs resembling whiskers, aiding in feeding, especially in murky waters. The absence of scales is characteristic of many catfish species, which have smooth, leathery skin.

Q2: A fish has a cartilaginous skeleton, five gill slits, and a streamlined body. What is its classification?

Answer:

This fish belongs to Chondrichthyes, specifically a shark. Cartilaginous skeletons provide flexibility and lighter weight. The presence of multiple gill slits and a streamlined body are typical of sharks, adaptations for efficient swimming.

Q3: Describe the features that distinguish bony fishes from cartilaginous fishes.

Answer:

Features distinguishing Osteichthyes (bony fishes) from Chondrichthyes (cartilaginous fishes) include:

- Skeleton: Bone vs. cartilage.
- Scales: Usually present in bony fishes, often cycloid or ctenoid; absent or rough in cartilaginous fishes.
- Gill Cover: Operculum present in bony fishes; gill slits exposed in cartilaginous fishes.
- Reproduction: Many bony fishes have a swim bladder for buoyancy; cartilaginous fishes lack this.
- Teeth: Bony fishes have replaceable teeth attached to jaws; cartilaginous fishes have sharp, replaceable teeth set in jaws.

Q4: Name the features used to classify a fish as a member of the order Perciformes.

Answer:

Features include:

- Presence of a single dorsal fin often divided into two parts.
- Well-developed pectoral and pelvic fins.
- Body shape is generally compressed.
- The caudal fin is usually forked.
- Scales are ctenoid.
- Examples include perch, bass, and mackerel.

How to Use the Fish Classification Lab Answers Key Effectively

- Identify Key Features: Always start by observing the physical features such as scales, fins, gill covers, and body shape.
- Compare with Standard Features: Use the answers key as a reference to match observed traits.

- Note Variations: Recognize that some fish may possess atypical features due to adaptations.
- Practice with Specimens: Hands-on identification reinforces understanding.
- Understand Reproductive and Ecological Aspects: These often complement morphological identification.

Conclusion

A thorough grasp of fish classification is integral to accurately identifying and understanding various species. The Fish Classification Lab Answers Key offers a structured approach to mastering this subject, emphasizing morphological features, anatomical details, and ecological traits. By delving deep into each aspect—such as scales, fins, gill structures, skeleton types, and reproductive modes—students can develop a comprehensive understanding of aquatic biodiversity.

Consistent practice, coupled with an understanding of the underlying principles, will enhance accuracy and confidence in classification tasks. Remember, fish are an incredibly diverse group, and each species offers unique insights into evolutionary adaptations and ecological roles. Use this guide not only as a resource for lab work but as a foundation for further exploration into ichthyology and aquatic sciences.

Question What are the main criteria used in fish classification in the lab? The main criteria include morphological features such as fin structure, scale type, body shape, and coloration, as well as anatomical features like the structure of the gills, mouthparts, and skeletal features. **How do I identify different fish families in the classification lab?** Identification involves examining specific features such as fin placement and shape, scale patterns, body proportions, and unique markings. Comparing these characteristics to identification keys helps determine the fish family. **What are common mistakes to avoid during fish classification in the lab?** Common mistakes include misidentifying scale types, overlooking subtle morphological differences, mishandling specimens, and not consulting the identification key thoroughly. Always handle specimens carefully and double-check features. **How can I differentiate between freshwater and saltwater fish in the lab?** Differentiation can be based on morphological features, habitat-specific adaptations, and sometimes the presence of certain fin or body features. Lab identification keys often specify traits associated with freshwater or saltwater species. **What resources or tools are essential for accurate fish classification?** Essential resources include identification keys, morphological diagrams, stereo microscopes, and reference books on fish taxonomy. Accurate measurements and detailed observations are also crucial. **Why is it important to correctly classify fish in the lab?** Correct classification aids in understanding biodiversity, ecological roles, and conservation status. It also provides foundational knowledge for further studies in ichthyology and environmental science. **How do I prepare fish specimens for classification in the lab?** Prepare specimens by properly preserving them in formalin or ethanol, ensuring they are clean and free of debris. Proper labeling and careful handling are essential to maintain morphological features for accurate identification.

Related keywords: fish identification, taxonomy guide, aquatic species, lab worksheet solutions, marine biology answers, fish anatomy chart, classification exercises, biology lab manual, fish species quiz, lab answer key

about fish a guide for children

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Fish are fascinating creatures that live in water all around the world. They come in many shapes, sizes, and colors, and they play very important roles in our environment. If you're curious about fish and want to learn more, you're in the right place! This guide will introduce you to the wonderful world of fish, helping you understand what they are, how they live, and some fun facts about them.

What Are Fish?

Definition of Fish

Fish are animals that live in water. They are part of a large group called aquatic animals, which means they spend most or all of their lives in water. Fish have gills, which help them breathe underwater, and fins, which help them swim.

Types of Fish

There are many different types of fish. They can be broadly divided into two main groups:

- **Jawless Fish:** These are some of the earliest fish, like lampreys and hagfish. They don't have jaws and usually have soft, jelly-like bodies.
- **Jawed Fish:** Most fish we see today belong to this group. They have jaws, scales, and fins. Examples include sharks, goldfish, and tuna.

Where Do Fish Live?

Freshwater Fish

Freshwater fish live in rivers, lakes, and ponds. They usually have adaptations that help them survive in water that has a low salt content. Examples include:

- Goldfish
- Carp
- Trout

Saltwater Fish

Saltwater fish live in the ocean or seas. They are adapted to survive in water with high salt content. Examples include:

- Clownfish
- Sharks
- Tuna

Brackish Water Fish

Some fish live in brackish water, which is a mix of freshwater and saltwater, like estuaries and mangroves.

How Do Fish Survive and Thrive?

Breathing Underwater

Fish breathe using gills, which are special organs that extract oxygen from water. Water flows over the gills, and oxygen is absorbed into the fish's blood.

Moving in Water

Fins help fish move smoothly through water. Different fins have different jobs:

- **Caudal fin:** The tail fin helps fish move forward.
- **Pectoral fins:** These fins help with steering and balance.
- **Pelvic fins:** They help with stability.

Eating Habits

Fish are diverse in what they eat:

- Some are herbivores and eat plants or algae.

- Others are carnivores and eat smaller fish or insects.
- Some are omnivores and eat both plants and animals.

Protection and Camouflage

Many fish have special features to protect themselves:

- **Camouflage:** Some fish blend into their surroundings to hide from predators.
- **Spines and scales:** These make them harder to eat.
- **Bright colors and patterns:** Some use colors to warn predators or attract mates.

Fun Facts About Fish

- Some fish can change their color to hide or communicate, like chameleons do.
- The largest fish in the world is the whale shark, which can grow up to 40 feet long!
- Clownfish, made famous by movies, live in sea anemones and are immune to their stings.
- Fish have been around for hundreds of millions of years, even before dinosaurs existed!
- Some fish, like the salmon, migrate thousands of miles to spawn (lay eggs) in the same place where they were born.
- Electric fish, like electric eels, can produce electric shocks to defend themselves or catch prey.

Why Are Fish Important?

Environmental Role

Fish help keep water ecosystems healthy. They are part of the food chain:

- They eat plants, insects, and smaller fish.
- They are food for many larger animals, including humans.

Economic Importance

Many people rely on fish for food and livelihood. Fishing is an important industry in many countries.

Recreation and Education

People enjoy fishing, watching fish in aquariums, and learning about aquatic life. Fish also help scientists understand water health and biodiversity.

How To Care for Fish as Pets

Setting Up a Fish Tank

If you want to keep fish at home, you'll need:

- A clean tank
- Clean water
- Proper temperature
- Appropriate food

Feeding Fish

Feed fish the right amount of food?usually a little once or twice a day. Overfeeding can harm fish and dirty the water.

Keeping Fish Healthy

Regularly clean the tank, check water quality, and watch for signs of illness.

Respecting Fish and Their Habitats

Protecting Fish and Water Environments

It's important to keep water clean and avoid pollution. Overfishing and habitat destruction threaten many fish species.

How Kids Can Help

You can:

- Participate in local clean-up days
- Learn about endangered fish species
- Support conservation efforts

Conclusion

Fish are amazing creatures that live all around us in oceans, lakes, and rivers. They come in many shapes, sizes, and colors, and they're a vital part of our planet's health. Whether you're watching

fish swim in an aquarium, exploring the beach, or learning about their lives in school, there's always something new and exciting to discover about fish. Remember, respecting and protecting fish and their habitats helps keep our water ecosystems healthy and full of life for generations to come!

About Fish: A Guide for Children

Fish are fascinating creatures that live in water all around the world. From tiny minnows to giant sharks, fish come in many shapes, sizes, and colors. If you're curious about these amazing animals, you've come to the right place! In this guide, we'll explore what fish are, where they live, the different types of fish, and fun facts that will help you understand and appreciate these aquatic animals even more. Whether you love swimming in the pool or exploring the ocean, learning about fish can open up a whole new world beneath the water's surface.

What Are Fish?

Fish are animals that live in water and breathe using gills. They are part of a large group called vertebrates, which means they have a backbone. Fish are different from other water creatures like whales or dolphins because they are cold-blooded, have fins, and usually lay eggs.

Key Features of Fish

- Gills: Fish breathe by taking in oxygen from the water through their gills.
- Fins: These help fish swim and steer in different directions.
- Scales: Many fish have scales that cover their bodies and protect them.
- Swim Bladder: A special internal organ that helps fish stay buoyant, or float, at different water depths.
- Lateral Line: A line of sensors along the fish's body that detects movement and vibrations in the water.

Where Do Fish Live?

Fish live in almost every kind of water environment on Earth. From the icy waters of the Arctic to the warm tropical seas, fish are everywhere!

Types of Fish Habitats

Freshwater Fish

- Lakes: Fish like bass and trout live here.

- Rivers and Streams: Salmon and catfish are common in flowing waters.
- Ponds: Small fish such as goldfish often live in ponds.

Saltwater Fish

- Oceans: The largest habitats for fish, including sharks, tuna, and clownfish.
- Coral Reefs: Brightly colored fish like angelfish and clownfish thrive in these vibrant ecosystems.
- Deep Sea: Some fish, like anglerfish, live in the dark depths of the ocean.

Types of Fish

Fish are incredibly diverse. Here are some of the main groups of fish you might hear about:

Cartilaginous Fish

- Definition: Fish with skeletons made of cartilage, the same flexible material in human noses and ears.
- Examples: Sharks, rays, and skates.
- Fun Fact: Sharks have been around for more than 400 million years?long before dinosaurs!

Bony Fish

- Definition: Fish with skeletons made of bone.
- Examples: Goldfish, trout, salmon, and tuna.
- Features: Most common type of fish, with scales and a swim bladder.

Jawless Fish

- Definition: The oldest type of fish, without jaws.
- Examples: Lampreys and hagfish.
- Interesting Fact: They look very different from most fish and sometimes resemble eels.

Fish Life Cycle

Understanding how fish grow and reproduce is an exciting part of learning about them.

The Fish Life Cycle Includes:

- Eggs: Most fish lay eggs in water. Some eggs hatch quickly, while others take longer.
- Larvae: The young fish hatch from eggs and often look very different from adult fish.
- Juvenile: Fish grow bigger and start to look more like adult fish.
- Adult: Fish are fully grown and ready to reproduce and start the cycle again.

Fun Fact:

Some fish, like salmon, are known as anadromous because they hatch in freshwater, migrate to the ocean to grow, and then return to freshwater to lay eggs.

Why Are Fish Important?

Fish are not only interesting animals but also extremely important to the planet and humans.

Environmental Role

- Food Chain: Fish are a vital part of the food chain, feeding smaller creatures and being prey for larger animals like birds, seals, and humans.
- Ecosystems: Fish help keep water environments healthy by cleaning up algae and controlling insect populations.

Human Benefits

- Food: Fish like salmon and tuna are eaten all over the world.
- Recreation: Many people enjoy fishing or watching fish in aquariums.
- Scientific Study: Fish help scientists understand biology, evolution, and marine environments.

Fun Facts About Fish

- The clownfish is immune to the stings of sea anemones, which it lives among for protection.
- The parrotfish can change its gender from male to female or vice versa.
- The lionfish has venomous spines to protect itself from predators.
- The goby fish can walk on land for short distances!
- The arapaima in the Amazon River can grow up to 15 feet long?that?s as long as a small car!

How Do Fish Keep Safe?

Like all animals, fish have ways to protect themselves from danger.

Defense Mechanisms

- Camouflage: Many fish have colors and patterns that help them blend into their environment.
- Speed: Some fish, like tuna, can swim very fast to escape predators.
- Spines and Stingers: Fish like lionfish have sharp spines to deter attackers.
- Schooling: Fish often swim in large groups called schools, which makes it harder for predators to catch one.

How To Observe Fish Safely

If you want to see fish up close, here are some safe ways to do it:

- Visit an Aquarium: A great place to see many different kinds of fish in one place.
- Go Snorkeling or Diving: In clear water, you can swim with fish in their natural habitat.
- Fish in a Pond or Lake: Use a fishing rod or simply watch the fish swimming.

Remember: Always be gentle and respectful of water animals and their homes.

Summary: Why Fish Are Amazing

Fish are some of the most diverse and interesting animals on Earth. They live in many different environments, have unique features, and play crucial roles in ecosystems. Learning about fish helps us appreciate the beauty and importance of our aquatic world. Whether you love watching colorful tropical fish or are fascinated by the mighty sharks, there's always something new to discover about fish!

Final Thoughts

Now that you know more about fish, you might want to explore further by reading books, watching documentaries, or even visiting an aquarium. Remember, fish are incredible creatures that deserve our respect and protection. So, next time you see a fish swimming in a pond or ocean, think about how amazing it is and how important they are to life on Earth.

Happy exploring the underwater world!

Question What are fish and where do they live? Fish are animals that live in water, such as lakes, rivers, and oceans. They have fins to help them swim and gills to breathe underwater. How do fish breathe underwater? Fish breathe underwater using their gills, which filter oxygen from the water so they can stay alive and swim happily. What do fish eat? Fish eat a variety of foods

depending on the type. Some eat plants, while others eat smaller fish, insects, or tiny creatures in the water. Why do fish have scales? Fish have scales to protect their bodies from injuries and help them glide smoothly through the water. Can all fish live in saltwater and freshwater? No, some fish live in saltwater like the ocean, some live in freshwater like lakes and rivers, and a few can live in both! Why are fish important to our environment? Fish are important because they help keep water ecosystems healthy and provide food for many animals, including humans.

Related keywords: fish, children, guide, aquatic animals, marine life, learning about fish, beginner's guide, underwater creatures, fish habitats, fun facts about fish

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