

# !The Fish



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Form 7b  
Marienschule  
Münster  
2008/2009  
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## Preface

We've heard that we will learn something about fish, so we got the idea that we could do a project about it. We think this will be interesting because they live differently from us for example they haven't got a skin and they live in the water. We already know something about fish because some of us have fish in the garden or in the house. We want to thank Veronika's mother, because she helped us with the spelling. It was very nice of her.



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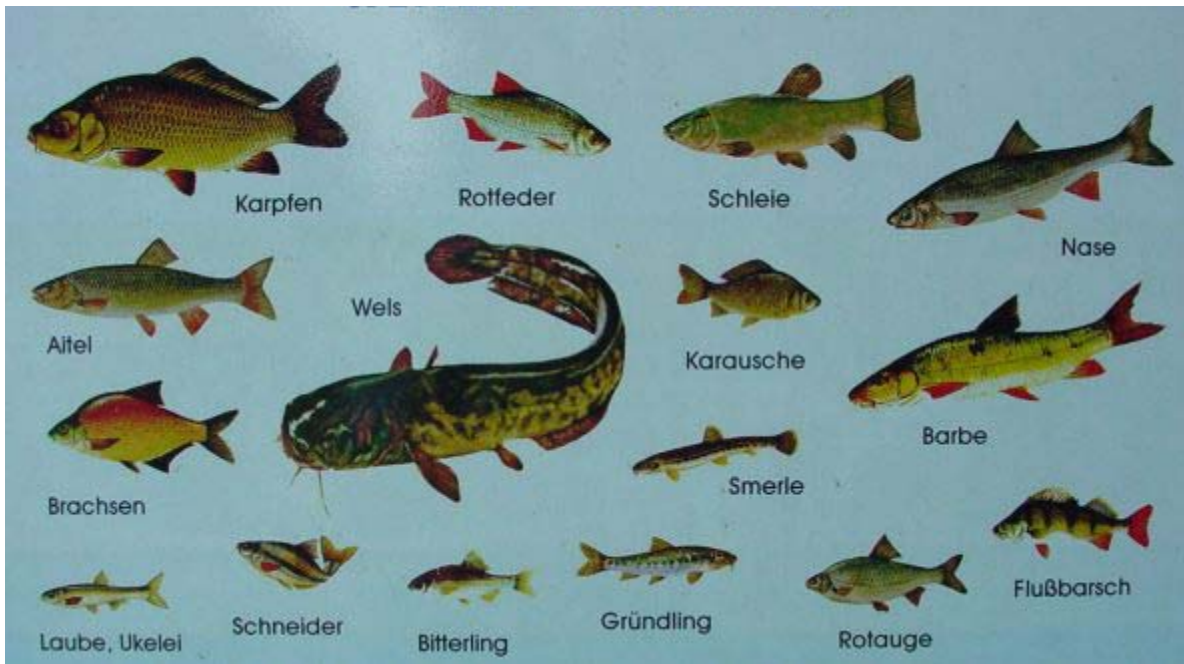


# Introduction

# 1 Introduction

This project is about the fish. We got information from books and the internet. All websites which we used can be found in the bibliography. The most of it is about the fish generally. First we wrote about the kinds of fish, where they live and what fish eat. After that you can find information about the related. A few pages after it there is something about their organs and their bones. In the supplement you can find some brochures and some nice pictures of different kinds of fish.

# 2



# Generally



## 2 Fish generally

In this chapter you can learn some things about the fish. In the first subchapter you read something about the kinds of the fish. After that you read something about the habitat and then something about their food.



## 2.1 Kinds of fish

On the whole world you can find more than 25.000 different kinds of fish. There are big differences between the types, not just in look but also in the way of life.

### Native fish

**Eel:** 40-200 cm

Features: body like a snake, no abdominal fins

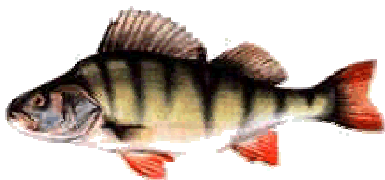
Habitat: rivers, lakes, sea (near the coast)



**Perch:** 15-50 cm

Features: rounded body, big snout, two dorsal fins

Habitat: lakes, rivers



**Pike:** 40-130 cm

Features: long body, long snout and jaws which look like a duck's beak, its dorsal fin is in the back

Habitat: lakes, rivers



**Carp:** 40-100cm

Features: deep-bodied, elongated, one wild form

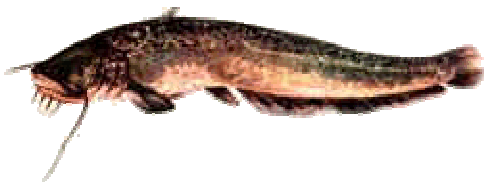
Habitat: slow, stagnant or muddy parts of lakes and rivers that are well-vegetated



**Latin:** 80-300 cm

Features: long body, big snout with long barbels

Habitat: lakes, rivers



**Rainbow trout:** 30- 120 cm

Features: long maxilla until the eye, the tail fin has a slight indentation

Habitat: lakes, rivers



## 2.2 Habitat

Fish can live in the water very well. They live in every sea even in tropical and polar regions. Some of them live near the water surface and some fish live in the deep. When fish live in the deep, they use their bioluminescence. Others live in rivers and lakes or in swamps of freshwater. No fish can permanently live on land. But lungfish can outlast a dry period because they dig in mud and take oxygen from the lungs.



## 2.3 Food

There are two different kinds of fish in the water. The first kind eats animals like snails and worms and it also eats old plants. The second one is the predator. It eats other fish, water rats and small birds. Some fish eat also cancers, insect larvae, frogs, little mammals, molluscs and plankton.

## 2.4 Its look

### The scales

Fish haven't got a skin like other animals but they have scales.



### The gills

Like most animals fish need oxygen. Only some of them can use the air for breathing. The others use the oxygen which is in the water with the help of their gills which are behind their eyes. The water with the resolved oxygen is taken by mouth and is pressed through the gills on both sides of the head from where the oxygen is led into the blood circulation.



## 2.5 Locomotion

The caudal fin is the most important thing for a fish to move. The dorsal fin helps the fish to swim in stability. Also the anal fin gives stability like the dorsal fin. The form of the fish is steamlined.



# 3



1. Liver
2. Gas bladder
3. Roe
4. Duodenum
5. Stomach
6. Intestine

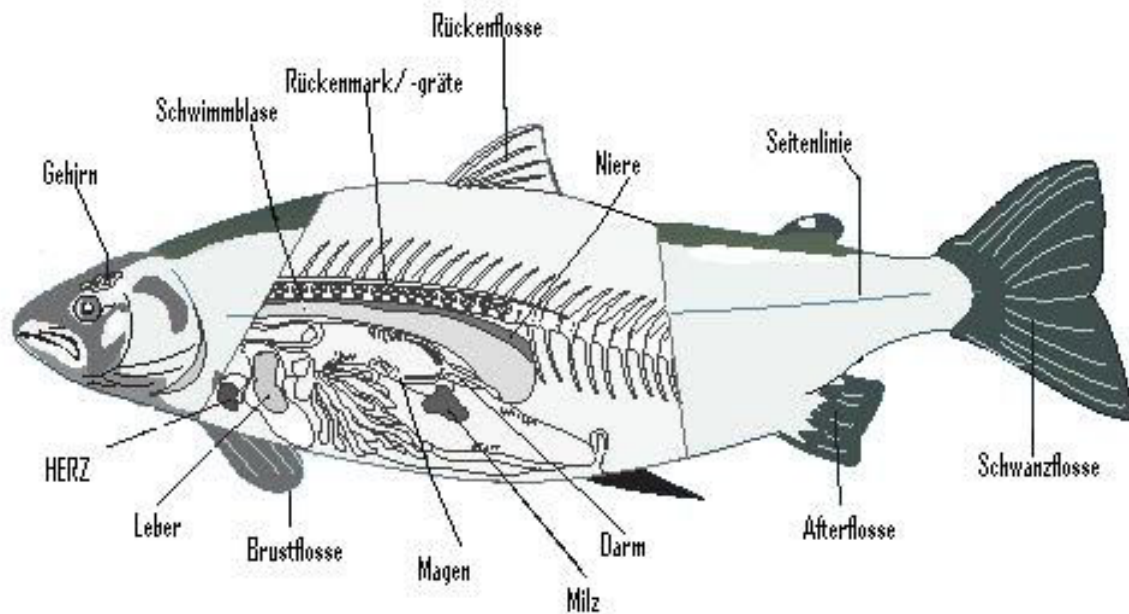
# The inside

### 3 The inside

In the inside of the fish you can find organs and bones. In the next subchapter we want to show you where the different organs and bones are. We've drawn a map of the skeleton of the fish. And there are some texts about it, too.

## 3.1 Skeleton

## 3.2 Organs



Gehirn: brain

Herz: heart

Leber: liver

Brustflosse: pectoral fin

Magen: stomach

Milz: spleen

Darm: intestine

Afterflosse: anal fin

Schwanzflosse: caudal fin

Seitenlinie: lateral line

Niere: kidney

Rückenflosse: dorsal fin

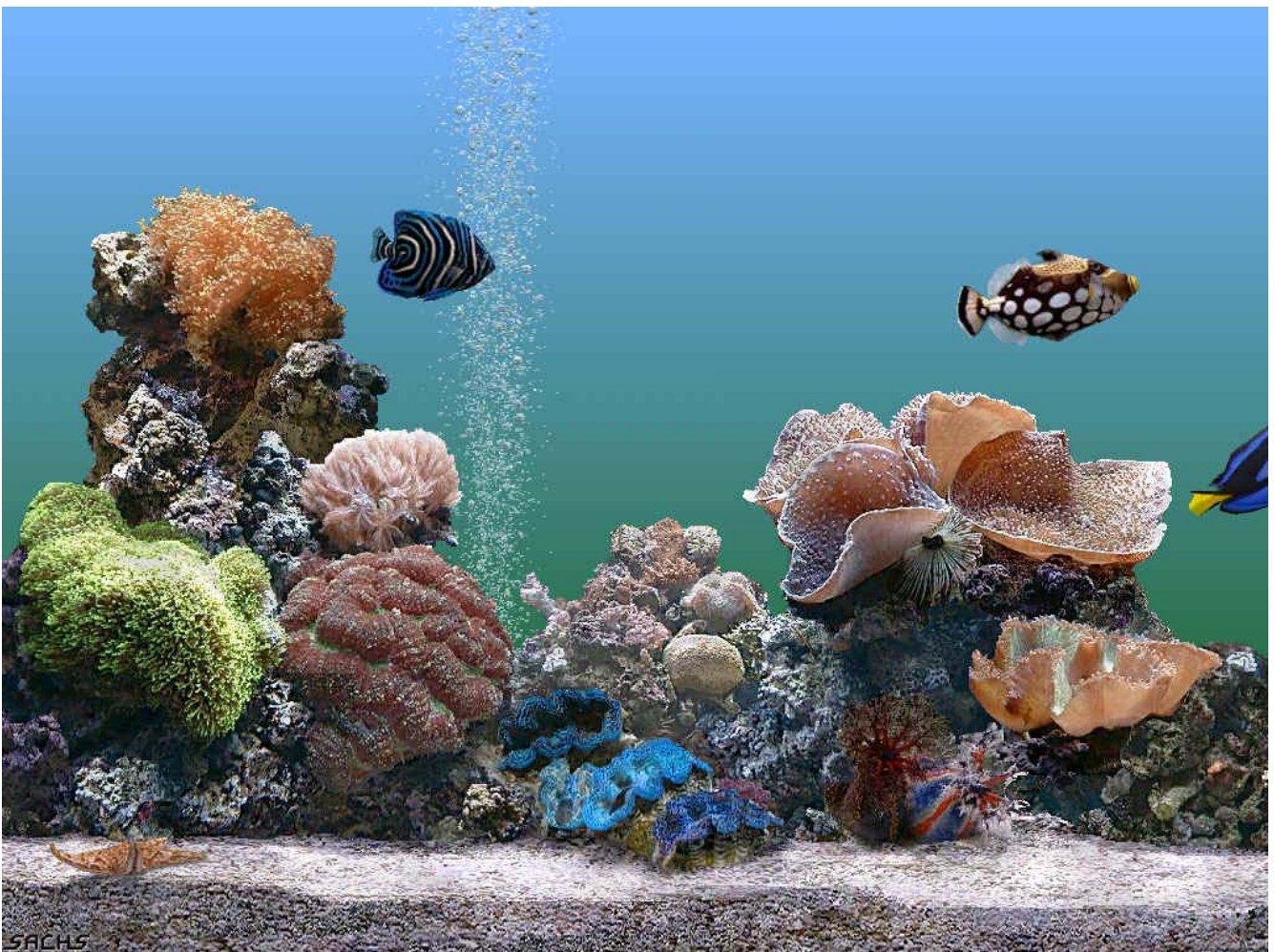
Rückenmark: spinal cord

Schwimmlase: swim bladder

All the internal organs of the fish are in the protective abdominal cavity stored in the hull. The swim bladder is in the middle, it serves to stabilize the fish.

## 4 Closing remarks

This project was very interesting and we've learned a lot about fish and their environment. It was very nice to get the information and to watch the pictures, but it was a little bit difficult to do this project on our own in English, because there were many words we didn't know. We would like to see the inside of a real fish because now we know a lot of it, but we haven't seen it reality.



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4



Closing  
remarks



Supplement

