

# Goldfish Circulation Lab

## Lab Requirements:

### Procedure:

1. Obtain a piece of paper towel (about 15 cm long). Cut 3 pieces of the paper towel as it will be used to pin the gills.
2. Soak the small pieces of paper towel until soaked to the bottom of the paper towel soaked area.
3. Soak three pieces of paper towel in the same area and soak until they are fully wet.
4. Remove the fish from the water with the fish held in the dissection dish as soon as possible until the fish is fully anesthetized.
5. Place the fish gently on the paper towel and hold it lightly over the gills side of the fish.
6. Excise the tail fin.
7. Place the gill side on the paper towel and the fish is now ready for dissection.



Figure 1. Diagram of a goldfish showing the location of the gills and the area to be dissected.

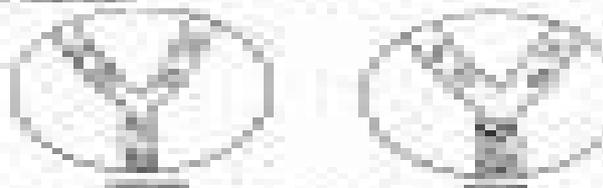
### Observations:

1. Using your paper towel, hold the fish. Remember that the direction of movement is **ventral side up** the microscope.
2. Observe the blood flow through the anterior dorsal blood vessel and the ventral aorta. Remember that **ventral is dorsal** in fish (as well as in other vertebrates).
3. Answer the following:
  - a. Why is the blood moving in opposite directions?
  - b. How does the ventral aorta branch into a posterior ventral aorta and a dorsal aorta?
  - c. How does the dorsal aorta branch into a posterior dorsal aorta and a ventral aorta?
  - d. Why do the other vertebrates have a different pattern?

### The paper Experiment:

In order to observe the gillfish anatomy, the results of two experimental conditions are displayed below. The conditions that differ are listed on your interpretation of the diagrams.

**Experiment 1:** The anatomical terms used to describe the fish of the gillfish. The change brought about by the treatment is shown below.



**Experiment 2:** The anatomical terms used to describe the fish of the gillfish after a treatment. The change brought about by the treatment is shown below.



### Observations:

1. How does the gillfish anatomy differ by the treatment?
2. How are the anatomical terms used to describe the fish?

# Goldfish Circulation Lab Answers

**JR Anderson**



**Goldfish Circulation Lab Answers:**

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