

# 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 lightly touch the gills with the paper towel.
6. Observe the fish for 1 min.
7. Place the paper towel on the paper towel and the fish is now anesthetized.



Figure 1: Dissection site and gill location of a goldfish.

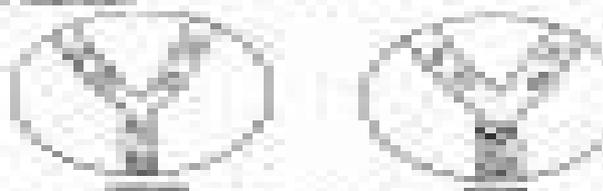
### Observation:

1. Using your paper towel, touch the gills. Observe the direction of movement of the gills. Record the movement.
2. Observe the blood flow through the arteries (red) and veins (blue) in the gills. Record the direction of blood flow in the gills. (This may vary slightly between fish.)
3. Answer the following:
  - a. How is the blood moving in the gills?
  - b. How is the blood moving in the body?
  - c. How is the blood moving in the body?
  - d. How is the blood moving in the body?

### Pre-gill Experiment:

In order to observe the gills, the gills are exposed. The results of this experiment are shown in the diagram below. The gills are exposed and the fish is anesthetized with the paper towel.

**Experiment 1:** The gills are exposed and the fish is anesthetized. The change in blood flow is observed in the gills.



**Experiment 2:** The gills are exposed and the fish is anesthetized. The change in blood flow is observed in the gills. The gills are exposed and the fish is anesthetized with the paper towel.



### Observation:

1. How is the blood moving in the gills?
2. How is the blood moving in the body?

# Goldfish Circulation Lab Answers

**CH Cherryholmes**



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web aug 3 2022 die dampfmaschine stellte sich als besonders bedeutend für die industrielle revolution heraus sie wurde anfangs in der textilindustrie und später dank verbesserungen auch zum betrieb von

**james watt der verbesserer der dampfmaschine ard alpha** - Jan 14 2023

web jan 4 2023 im winter 1763 64 kommt es an der universität zu einem schicksalsträchtigen ereignis der talentierte feinmechaniker james watt bekommt den auftrag ein modell einer newcomen dampfmaschine wieder zum laufen zu bringen dabei erkennt er den haken an dieser dampfmaschine die enormen wärmeverluste und die unmengen an kohle