

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 down.
2. Soak the small pieces of paper towel until soaked to the bottom of the paper towel soaked area.
3. Soak the big piece of paper towel until soaked and have it ready for step 5.
4. Remove the fish from the water with the fish held in the dissection dish as soon as possible until the fish is ready to be pinned down.
5. Pin the big piece of paper towel to the bottom of the dish, ready for the fish.
6. Pin the small pieces of paper towel to the bottom of the dish, ready for the fish.
7. Place the fish in the paper towel. The fish is now in the paper towel, ready to be pinned down.



Figure 1. Location of the heart and major blood vessels in a goldfish.

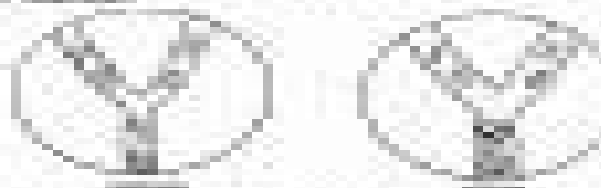
Observation:

1. Using your pencil, trace the path of the blood through the heart and the direction of movement in the vessels. Label the structures.
2. Observe the blood flow through the arteries (red) and veins (blue) in the heart and the vessels. Draw a sketch of what you see in the dissection dish. (This may take a few minutes.)
3. Answer the following:
 - a. Why is the blood moving in opposite directions?
 - b. What is the function of the heart? (The heart is the pump that moves the blood.)
 - c. What is the function of the arteries and veins?
 - d. Why is the blood in the arteries red? (The blood is rich in oxygen.)

The paper Experiment:

In order to observe the pathway of the blood, the results of the dissection are shown in the diagram below. The dissection that follows are based on the dissection of the diagram.

Experiment 1: The dissection shows the path of the blood. The change in color is due to the presence of oxygen in the blood.



Experiment 2: The dissection shows the path of the blood. The change in color is due to the presence of oxygen in the blood. The dissection shows the path of the blood through the heart and the vessels.



Observation:

1. How does the blood flow through the heart and the vessels?
2. How is the blood flow affected by the dissection?

Goldfish Tail Circulation Lab Answer

K Payea



Goldfish Tail Circulation Lab Answer:

Resources for Teaching Middle School Science Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents

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namun yang menjadi masalah jika nilai nilai tersebut tidak diketahui hal ini menjadi pekerjaan yang sangat rumit dan memerlukan beberapa pendekatan untuk menentukan luasnya

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