

GOLDFISH CIRCULATION LAB

ANSWERS

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How can you tell which vessels are capillaries in the goldfish tail? Look for a small artery (arteriole) at a point where it divides. The two forks of this division are the capillaries.

What type of circulatory system do goldfish have? Fish have a closed circulatory system with a heart that pumps blood around the body in a single loop—from the heart to the gills, from the gills to the rest of the body, and then back to the heart. The fishes heart consist of four parts: the sinus venosus, atrium, ventricle, and the bulbus arteriosus.

How many red blood cells can pass side by side through the capillaries? Red Blood Cells (erythrocytes) are approximately 0.01 mm, so only one can pass through the small capillary. The advantage of this is that there is a larger surface area exposed, more time available and shorter difference for exchange of oxygen.

Does the blood move more rapidly or less rapidly after it flows from the capillaries into a vein? Part (d) shows that the velocity (speed) of blood flow decreases dramatically as the blood moves from arteries to arterioles to capillaries. This slow flow rate allows more time for exchange processes to occur. As blood flows through the veins, the rate of velocity increases, as blood is returned to the heart.

How can you tell which vessels are the capillaries? Artery vs Capillary. Arteries are the largest blood vessels with the thickest walls, and capillaries are the smallest. Arteries are only located deep inside your muscles, but capillaries are inside tissues all over your body.

How is the circulation of blood in fish different? Because blood only passes through the heart once in a complete circuit around the body, fishes are said to have a single circulation. One disadvantage is that the narrow gill capillaries slow blood flow, resulting in low blood pressure in the body.

How does the circulatory system work in fish? 3a Fish have a single circuit for blood flow and a two-chambered heart that has only a single atrium and a single ventricle. The atrium collects blood that has returned from the body and the ventricle pumps the blood to the gills where gas exchange occurs and the blood is re-oxygenated; this is called gill circulation.

What is the circulatory pattern of a fish? Fish generally have a single circulation, pumped by a linear connected series of chambers located ventrally and behind the gill region, and collectively forming the myogenic heart.

What are the capillaries in the gills? Gills are branching organs located on the side of fish heads that have many, many small blood vessels called capillaries. As the fish opens its mouth, water runs over the gills, and blood in the capillaries picks up oxygen that's dissolved in the water.

What are the three types of capillaries? Blood flow into the capillaries is controlled by precapillary sphincters, smooth muscle bands that wrap around metarterioles. There are 3 types of capillary in the body; continuous, fenestrated, and sinusoidal.

Where does the systemic circulation begin and end? Systemic circulation carries oxygenated blood from the left ventricle, through the arteries, to the capillaries in the tissues of the body. From the tissue capillaries, the deoxygenated blood returns through a system of veins to the right atrium of the heart.

What controls blood flow into capillaries? Blood flow to capillaries is supplied by arterioles, resistance vessels that are surrounded by vascular smooth muscle. Blood entering the capillary bed is controlled by contraction or dilation of arterioles and precapillary (more...)

How does blood flow velocity change throughout circulation? The rate, or velocity, of blood flow varies inversely with the total cross-sectional area of the blood vessels. As the total cross-sectional area of the vessels increases, the velocity of

flow decreases. Blood flow is slowest in the capillaries, which allows time for exchange of gases and nutrients.

What two factors will increase blood flow? Blood travels through a network of passageways known as blood vessels. Any elements that cause a rise in cardiac output will increase blood flow. It is caused by an increase in stroke volume, heart rate, or both.

What is the best explanation for the slow movement of blood in capillaries? Velocity (cm/sec) is blood flow (Q) over cross-sectional area. For example, blood flow is slow at the capillaries because of the high total cross-sectional area, which allows for proper nutrient exchange.

What is the bloodiest part of the body? That article quoted Dr. Céline Gounder, a physician, senior fellow at KFF and editor-at-large for public health at KFF Health News, who told PolitiFact in an email that “the scalp is perhaps the most 'bloody' part of the body if injured or cut. But, in general, the head/neck is the 'bloodiest' part of the body.

Which is the only artery that doesn't carry oxygenated blood? Your pulmonary arteries carry blood from your heart to your lungs. They're the only arteries in your body that carry oxygen-poor (deoxygenated) blood.

Where does blood go after it leaves the right side of the heart? The blood enters the heart's right atrium and is pumped to your right ventricle, which in turn pumps the blood to your lungs. The pulmonary artery then carries the oxygen-poor blood from your heart to the lungs. Your lungs add oxygen to your blood.

How does the circulatory system work in a fish? The blood pumped by the heart circulates clockwise (fish in left lateral view) and is distributed by vessels, i.e. arteries, veins and capillaries. Arteries diameter is almost uniform throughout and distribute blood to the entire body losing very little pressure.

Why is the circulatory system of fish described as a single circulation? In fish, once the blood leaves the gill capillaries it travels directly to the rest of the body before travelling back to the heart. This is called single circulation.

How does blood flow in fish work? The oxygenated blood enters efferent (exuant) arteries of the gill arches and then flows into the dorsal aorta. From there blood is distributed to the tissues and organs of the body. One-way valves prevent backflow.

Which type of circulation is found in fish? Fish blood circulation is called as venous circulation as its heart receives blood from veins and send it to the gills for oxygenation. Fishes have 2-chambered heart and thus, there is single circulation.

How do fish circulate oxygen? Fish take water into their mouth, passing the gills just behind its head on each side. Dissolved oxygen is absorbed from—and carbon dioxide released to—the water, which is then dispelled. The gills are fairly large, with thousands of small blood vessels, which maximizes the amount of oxygen extracted.

How does the circulatory system of most fish differ in some important ways? Fish, for instance, have a single-circuit system where the blood passes through the heart once during each circulation. The heart pumps the blood to the gills for oxygenation, and then it travels directly to the rest of the body. In contrast, amphibians, reptiles, birds, and mammals have a double-circuit system.

What are the blood vessels in a fish tail? The tail vein or caudal vein is the largest vein in the tail of a vertebrate animal. It leads directly into the posterior cardinal vein of the posterior trunk in fishes.

What are the blood vessels in the tail? Tail veins are frequently used for collection of venous blood and intravenous injections. In the tail there are three veins and one artery: paired lateral caudal veins, an unpaired dorsal caudal vein and the ventral caudal artery (Figure 5.3).

Why does my goldfish have red veins in its tail? Elevated levels of nitrogen based waste can make the capillaries (small blood vessels) in the fins to become friable and bleed more easily, that's why you see red streaks, from hemorrhage/bleeding.

Where are the capillaries in fish? Gills are branching organs located on the side of fish heads that have many, many small blood vessels called capillaries. As the fish opens its mouth, water runs over the gills, and blood in the capillaries picks up oxygen that's dissolved in the water.

What are the different types of blood vessels in fish? The blood pumped by the heart circulates clockwise (fish in left lateral view) and is distributed by vessels, i.e. arteries, veins and capillaries. Arteries diameter is almost uniform throughout and distribute blood to the entire body losing very little pressure.

Why are the veins showing in my fish tail? The red lines in a goldfish tail is caused by ammonia poisoning. This could be due to several reasons: the tank is not big enough for the goldfish, you are not doing enough water changes, or there is rotting food.

Why are gills in fish supplied with blood capillaries? The gills are structures that allow them to breathe underwater by exchanging gases. For this reason, they have an abundance of blood vessels. Gills are positioned next to the mouth cavity of fish. Fish use their mouths to draw oxygen-rich water in and pump it over their gills.

Do tails have veins? In the tail there are three veins and one artery, that is, paired lateral caudal veins, unpaired dorsal caudal vein and ventral caudal artery (Figure 33.8). As the tail veins are thicker than the dorsal metatarsal and medial saphenous veins, a larger quantity of venous blood can be obtained.

What are the 5 parts of blood vessels?

What is the dorsal blood vessel? A dorsal vessel is the major structural component of an insect's circulatory system. This tube runs longitudinally through the thorax and abdomen, along the inside of the dorsal body wall. In most insects, it is a fragile, membranous structure that collects hemolymph in the abdomen and conducts it forward to the head.

Why is my goldfish tail bleeding? #BLEEDING_OF_GOLDFISH Bloody streaks / red spots in tail or fins: This is a sure sign of a serious problem with the water. High ammonia or nitrites can cause blood hemorrhaging (broken blood vessels) of the veins in the tail of the goldfish, resulting in thin red lines or spots of blood appearing in the fins.

Why is my goldfish belly red? Bacterial Infections Goldfish and koi are particularly susceptible to the *Aeromonas salmonicida* strain. Another bacterial infection common in goldfish is red pest disease. Caused by *Bacterium cyprinicida*, this

disease causes sick fish to develop red sores and bloody streaks on the body and fins.

How do I get rid of ammonia in my tank?

What is the circulation of blood in fish? Fishes have a single circulatory system. In the hearts of fish, there are two chambers: an atrium and a ventricle. Deoxygenated blood from the tissues is pumped to the gills for purification, where it is then returned to the heart to be given to the various bodily tissues with oxygen.

What is the circulatory system path of fish? (a) Fish have the simplest circulatory systems of the vertebrates: blood flows unidirectionally from the two-chambered heart through the gills and then the rest of the body.

How is blood circulation in fish different from that of human beings? 1. **Single Circulation:** Most fish have a single circulatory system, where blood passes through the heart only once in each complete circuit through the body. 2. **Two-Chambered Heart:** Fish typically have a two-chambered heart, consisting of one atrium and one ventricle.

The Museum of Intangible Things: An Exploration of the Invisible

Q: What is The Museum of Intangible Things? A: Founded by artist Wendy Wunder, The Museum of Intangible Things is a unique cultural institution dedicated to showcasing the ephemeral and abstract. It exhibits experiences, ideas, and emotions that cannot be physically touched or seen.

Q: How does the museum display intangible items? A: Wunder ingeniously uses a variety of interactive installations and immersive artworks to evoke the essence of intangible concepts. Visitors can participate in guided experiences, listen to audio recordings, and engage with digital interfaces that bring these ideas to life.

Q: What kind of intangible items are on display? A: The museum's collection spans a wide range of intangible themes, including love, fear, silence, and nostalgia. Each exhibit explores the complexities and nuances of these abstract concepts, inviting visitors to reflect on their own experiences and emotions.

Q: What is the purpose of The Museum of Intangible Things? A: Wunder's goal is to challenge the conventional notion of a museum and explore the boundaries of what can be considered an artifact. By showcasing the intangible, the museum encourages visitors to appreciate and understand the unseen forces that shape human experience.

Q: How can visitors experience the museum? A: The Museum of Intangible Things is located in downtown Hudson, New York. Visitors can purchase tickets online or at the museum entrance. Guided tours and special programs are also available, providing a deeper understanding of the exhibits and their significance.

West Africa Study Guide Answer Key

Paragraph 1:

- **Question:** Name the countries that make up the Economic Community of West African States (ECOWAS). **Answer:** Benin, Burkina Faso, Cape Verde, Côte d'Ivoire, Gambia, Ghana, Guinea, Guinea-Bissau, Liberia, Mali, Mauritania, Niger, Nigeria, Senegal, Sierra Leone, and Togo.
- **Question:** What is the official currency of ECOWAS? **Answer:** West African CFA Franc (CFA)
- **Question:** What is the largest country in West Africa by population? **Answer:** Nigeria

Paragraph 2:

- **Question:** What is the dominant religion in West Africa? **Answer:** Islam
- **Question:** What is the main language spoken in the majority of West African countries? **Answer:** French

- **Question:** What is the largest ethnic group in West Africa? **Answer:** Hausa

Paragraph 3:

- **Question:** What is the main economic activity in West Africa? **Answer:** Agriculture
- **Question:** What are the major agricultural products grown in West Africa? **Answer:** Cocoa, coffee, cotton, groundnuts, cassava, and millet
- **Question:** What is the main industry in West Africa? **Answer:** Mining

Paragraph 4:

- **Question:** What are the major challenges facing West Africa today? **Answer:** Poverty, conflict, disease, and environmental degradation
- **Question:** What are the major historical events that have shaped West Africa? **Answer:** The trans-Atlantic slave trade, colonialism, and independence

Paragraph 5:

- **Question:** What is the current population of West Africa? **Answer:** Approximately 381 million people
- **Question:** What is the projected population growth rate for West Africa? **Answer:** 2.5% per year

What is the alpha male mindset? Bold, self-confident, and demanding, alpha males get things done. But the traits that make them so productive can also drive

their coworkers crazy. Highly intelligent, confident, and successful, alpha males represent about 70% of all senior executives.

How do alpha males attract women? Here are some other key qualities that attract women to the alpha man: They're natural leaders: And holy moly this covers several incredibly sexy traits. Confident and self-assured, alpha males lead the way. They step into the unknown, take risks and face the challenges that all leaders inevitably have to face.

How do you gain confidence in an alpha male?

Can an alpha male fall in love? One thing that makes alpha males fall in love is their sense of purpose. If you live a life headed in a good direction, you will attract alpha males. In addition, if you know how to keep your physical appearance up by looking good, more alpha males will come your way.

What is alpha male weakness? Human alpha males might have a hard intimidating exterior, but beneath that lies a soft underbelly that is easily bruised, and that's the alpha male weakness.

What is zeta male? Zeta males are one-of-a-kind progressives. They're rare nonconformists who don't care what other people think. They know themselves and refuse to change to fit into the rigid social standards of society. Zeta males are fierce creatives who blaze new paths for themselves and others. X Research source.

What do alpha females want? An alpha woman wants a man who can simultaneously keep up with her and also lead. Whether it's where to eat dinner or which show to watch on Netflix, make the decisions. It may seem like she wants to be in control, but in truth, she needs a man who knows what he wants and can keep up with her.

How can you tell if a woman is Alpha? An alpha woman has quirks, flaws and insecurities just like everyone else, but she chooses to embrace these and be confident because she knows who she is and what she wants. She's never loud or abrasive. She just radiates confidence, optimism and an unrelenting 'where there's a will, there's a way' attitude.

How do alpha males talk to women? Offer genuine compliments. Comment on the attractive qualities you see in her. Because alpha males are secure in themselves, they don't say things that they don't sincerely mean. Not only will this show her that you are a genuine person, it will make her appreciate your thoughtful compliments even more.

What makes an alpha male happy? Since an alpha man is really driven and has a packed schedule, you'll win him over if you savor every minute you spend with him. Say that you know he has a lot on his agenda. Then, tell him that you appreciate that he found a special moment just for you. He'll find more opportunities to share his life with you.

How to speak like the alpha?

How do you keep an alpha male attention?

What type of woman is an alpha male attracted to? A respectful woman An alpha man wants to cherish that feeling that comes when you honor and respect his person. An alpha male is drawn to a woman who respects and doesn't belittle him. A respectful woman acknowledges an alpha male's quality and actions. She doesn't compare him to other men and praises him.

Is Alpha male jealous? The alpha male can be jealous but not overly so The alpha male, as mentioned, has a strength of character and knows his value. Still, he cares. If he didn't, there would be no reason to feel jealousy. But any feelings of love will bring with them a bit of jealousy or insecurity.

How to tell if he's an alpha male? He's the dominant male personality type, and he's characterized by being highly self-confident, a natural leader, and the one to always make the decisions. Alpha men tend not to take kindly to criticism, and they are less likely to discuss things with you before making up their mind.

Are alpha males loyal? A relationship with an alpha male can be quite rewarding. These men are dominant, confident, and loyal to their partners. However, they may come across as arrogant or insensitive. Knowing how to be with an alpha male in a relationship is important for keeping the peace.

What is more powerful than an alpha? Super Strength: The Gamma Werewolves are stronger than Alphas, Betas, or Omegas, and can only be matched by either a True Alpha or another Gamma Werewolf.

What is the alpha male mentality? The term alpha male is used to describe a man who is confident, assertive, and successful in his personal and professional life. He is typically viewed as a leader and role model among his peers, respected by men and women alike, and take charge in situations, especially ones involving beta males.

What is a delta male? delta male (plural delta males) A male without an authoritative position or role in social or group hierarchy; a commoner. A male animal that ranks fourth in the social hierarchy.

What is a theta male? Theta male: Spiritual, intuitive, and empathetic, often seeking deeper connections. 8. Zeta male: Ambitious, driven, and competitive, often striving for success. " Keep in mind that these categories are not strict definitions and can overlap or evolve over time.

Who is above alpha? The alpha's position is constantly facing challenges. At some time the alpha will be overthrown by a younger, stronger, more dominant alpha. So the only thing higher than an alpha is the up-coming next alpha.

What is the habit of alpha male? Extreme Discipline Alpha males are regimented in their personal and professional lives, they are extraordinarily productive people who pack their lives full of habits, passions, and challenges, you might look at the lifestyle of an alpha male and think, "How does he keep up with the secret... is self-discipline, Alpha ...

What is the alpha male type of person? Male Modals We all know the top two, but let's remind ourselves of them and get to know the others. ALPHA: Confident, outgoing, a charismatic leader, enterprising. A macho man, but aggressive with it. BETA: Friendly, reserved, loyal, collaborative.

What are the core values of an alpha male?

What is alpha male ideal? He's the dominant male personality type, and he's characterized by being highly self-confident, a natural leader, and the one to always make the decisions. Alpha men tend not to take kindly to criticism, and they are less likely to discuss things with you before making up their mind.

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