

CONCEPT DEVELOPMENT PRACTICE

PAGE 7 1 MOMENTUM ANSWERS

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What is momentum in conceptual physics? Momentum is directly proportional to the speed or velocity of an object. Next, imagine that same friend throwing a bowling ball to you. The impact of the bowling ball, even thrown at the same speed as the softball, would definitely be higher. Momentum is also directly proportional to the mass of an object.

Which velocity component changes along the path? The horizontal component of velocity remains constant because no horizontal force acted. The vertical component of velocity changes because of acceleration due to gravity.

What is the conceptual conservation of energy? The law of conservation of energy can be stated as follows: Total energy is constant in any process. It may change in form or be transferred from one system to another, but the total remains the same. We have explored some forms of energy and some ways it can be transferred from one system to another.

How to solve momentum? The formula for Calculating Momentum of an Object
Momentum: The momentum of an object is the product of an object's mass and velocity: $p = mv$. Notice that momentum, like velocity, is a vector value meaning that it is associated with a particular direction.

Is momentum always conserved? Momentum is always conserved because there is no external force acting on an isolated system (like the universe). Since momentum can never change, all of its components will always remain constant.

When velocity changes direction? A change in velocity is either a change in an object's speed or its direction. When a moving object changes direction, its velocity changes and it is accelerating. The speed of a horse moving around on a carousel remains constant, but it is constantly changing direction. So, the horse is accelerating.

What is the velocity of a path? The velocity vector, v , is always tangent to the path of motion. The magnitude of v is called the speed. Since the arc length s approaches the magnitude of r as $t \rightarrow 0$, the speed can be obtained by differentiating the path function ($v = ds/dt$).

How to find the direction of velocity? The direction of the velocity vector is determined by a fairly simple rule: It is always tangent to the path and in the direction of motion. The "direction of motion" is basically the direction of the object's displacement during a very small time interval.

Is matter created or destroyed? The Law of Conservation of Mass Matter can change form through physical and chemical changes, but through any of these changes, matter is conserved. The same amount of matter exists before and after the change—none is created or destroyed.

What is the conceptual flow of energy? The energy flow of an ecosystem is a fundamental concept of ecological studies. The direction of flow of energy in an ecosystem is unidirectional and is typically in the form of food energy that flows from one trophic level to another. It harnesses the energy that cascades through the food chain and food webs.

How is energy transferred? Energy can be transferred as heat in three different modes: Conduction, involving the direct contact of object. Convection, involving the movement of fluids. Radiation, involving the electromagnetic waves and photons.

What is the difference between mass and velocity? Mass represents the amount of matter in an object, while velocity represents the amount of change in position over time. The relationship between mass and velocity plays a crucial role in understanding kinematics and determining how forces affect objects.

What is the concept of momentum? Momentum is the quantity that is used to describe the state of motion of an object with a non-zero mass. Hence, momentum is applicable to any moving object. If m is the mass of an object and v is the velocity with which this body travels, then momentum can be expressed as $p = m v$.

Is momentum a force? Even though these physical quantities are similar, there is a difference between force and momentum. Force is generally the external action upon a body, whether a pulling or pushing action. Momentum, on the other hand, is the representation of the amount of motion within a moving body.

What is the symbol for momentum? Single particle The momentum of a particle is conventionally represented by the letter p . It is the product of two quantities, the particle's mass (represented by the letter m) and its velocity (v): The unit of momentum is the product of the units of mass and velocity.

Does friction affect momentum? Does friction affect the conservation of momentum? Yes, friction affects momentum. As friction increases, momentum decreases.

Is kinetic energy always positive? Kinetic energy must always be either zero or a positive value. While velocity can have a positive or negative value, velocity squared is always positive.

What is momentum in physics in simple words? What is Momentum? Momentum is a fundamental concept in physics that quantifies the motion possessed by an object. It is defined as the product of an object's mass and velocity. In other words, momentum is determined by multiplying the mass of an object by its velocity.

Why is momentum an important concept in physics? Explanation: Momentum gives the relationship between mass, velocity, and direction of an object. Any change in momentum results in force. So, a change in momentum is used to determine the force acting upon the object.

What is the general definition of momentum? noun. , plural mo-men-ta [moh-, men, -t, uh], mo-men-tums. force or speed of movement; impetus, as of a physical object or course of events: The car gained momentum going downhill. Her career lost momentum after two unsuccessful films.

What is momentum in a level physics? Momentum of an object is defined as its mass \times velocity. Unit is kg m/s. Symbol is P . Momentum is a vector quantity and its direction is the same as the direction of the object's velocity.

Is Introduction to discrete mathematics hard? Discrete mathematics has a well-deserved reputation as one of the more challenging 200-level mathematics courses, so be prepared to work hard! Part of the reason discrete mathematics is difficult is that it has a significantly different flavor than the mathematics classes you have taken prior to this course.

Is combinatorics part of discrete mathematics? Mathematicians use the term "Combinatorics" as it refers to the larger subset of Discrete Mathematics. It is frequently used in computer Science to derive the formulas and it is used for the estimation of the analysis of the algorithms.

What is intro to discrete math? You can think of discrete math as math with numbers or objects that are separated from each other. Imagine a line with one-inch tick marks spaced evenly apart — those tick marks would be "discrete." Similarly, discrete math uses counting numbers (e.g., 1, 2, 3, 4...) because they're all kept separate from each other.

What is discrete combinatorial? Combinatorics is the study of finite or countable discrete structures and includes counting the structures of a given kind and size, deciding when certain criteria can be met, and constructing and analyzing objects meeting the criteria, finding "largest", "smallest", or "optimal" objects, and studying combinatorial ...

Is discrete math hard harder than calculus? As for difficulty, both subjects can be challenging in their own right. Discrete mathematics has a largely proof-based structure, which may be a new territory for some students. Calculus, meanwhile, focuses on continuous change and requires strong algebra and trigonometry skills.

Is discrete math a high level math? Discrete math is essential to college-level mathematics and beyond. Discrete math — together with calculus and abstract algebra — is one of the core components of mathematics at the undergraduate level.

Is discrete math similar to calculus? Objects studied in discrete mathematics include integers, graphs, and statements in logic. By contrast, discrete mathematics excludes topics in "continuous mathematics" such as real numbers, calculus or Euclidean geometry.

Do you need calculus for combinatorics? Many pure math classes require no (or very little) calculus. Abstract algebra, number theory, combinatorics, and graph theory certainly fall into this category. Topology does, too, depending on which area you study and what you consider calculus.

Is discrete math pure math? The coursework for applied math focuses can also lead many students to practical fields like computer and data science, mechanical engineering or finance and accounting. In contrast, the coursework for a degree in pure mathematics often focuses on topics in abstract algebra, discrete mathematics, complex variables, ...

Do you need calculus for discrete math? What math do I need to learn before discrete mathematics? Students with a solid understanding of algebra, geometry, and precalculus will do very well in discrete math.

Is discrete math coding? Discrete math covers topics that are the mathematical underpinnings of computing: Mathematical logic allows us to understand the semantics of programming languages.

What is an example of discrete math? Discrete mathematics is the study of mathematical structures that are countable or otherwise distinct and separable. Examples of structures that are discrete are combinations, graphs, and logical statements. Discrete structures can be finite or infinite.

Is Combinatorial Mathematics hard? Combinatorics is, arguably, the most difficult subject in mathematics, which some attribute to the fact that it deals with discrete phenomena as opposed to continuous phenomena, the latter being usually more regular and well behaved.

Where are combinatorics used in real life? Combinatorics has many applications in other areas of mathematics, including graph theory, coding and cryptography, and probability.

What is combinatorial mathematics used for? Combinatorics is especially useful in computer science. Combinatorics methods can be used to develop estimates about how many operations a computer algorithm will require. Combinatorics is also important for the study of discrete probability.

What grade level is discrete math? Because many discrete math problems are simply stated and have few mathematical prerequisites, they can be easily be introduced at the middle school grade level.

Which is harder, discrete math or linear algebra? Is Linear Algebra A Hard Subject? Many students regard linear algebra as a difficult study. It is more challenging than discrete mathematics which is usually a first-year program taught in most STEM majors. Linear algebra is taught in its second year and demands robust reasoning and analytical skills.

What is the hardest math course?

Do you need to be good at calculus for discrete math? What math do I need to learn before discrete mathematics? Students with a solid understanding of algebra, geometry, and precalculus will do very well in discrete math.

What is moulage training? Healthcare simulation moulage involves the application of simulated illnesses or wounds on a manikin or standardized patient to better train clinical professionals.

What is medical moulage in simulation? Moulage is a simulation of illnesses or physical signs onto standardized patient or manikin via using makeup techniques. Moulage is a fantastic vehicle for representing and simulating the real event promoting realism and motivating students' engagement and immersion.

What is moulage technique? Moulage is a technique widely used in the creation of couture garments. In moulage, the garment is draped and shaped directly onto a mannequin or the body of a model.

Is breeding discus easy? Discus Breeding Level – Difficult Captive bred discus will pair up and spawn relatively easily, but young, inexperienced parents may eat their eggs the first few times, particularly if other fish are present.

How do you keep discus fish for beginners? 3-5 discus should be doable in a 55gal aquarium as long as water changes are kept up with. A general rule you can follow is one discus per 10 gallons. Since these fish are tall, do not keep them in shallow tanks. The UNS 90U, 120P, and 120U are all high quality aquariums that would be great for discus!

What is the best TDS for discus breeding? The Jack Wattley folks swear the following is absolutely required for breeding discus: 35 to 80 microsiemens per centimeter conductivity (this corresponds to 23 to 54 TDS or ppm) pH of 5.5 to 6.5.

What is the best food for discus breeding? White worms are also especially beneficial for stimulating the conditioning and breeding of discus fish as they are also high in fat, allowing the fish to quickly add size and mass. Another popular food type among discus keepers is beef heart, which is typically frozen.

How to trigger discus to breed? The three stimulants for breeding Discus fish are water pH, temperature and water hardness. Thus, the winter or rainy months are considered a stimulus for Discus breeding, as they thrive in a more alkaline environment with softer water and cooler temperatures.

Why are discus so hard to keep? Water is the first thing to get right first as we have already looked at. If you don't have the correct conditions, you will never successfully keep discus. If you keep your water parameters right, discus are then just as easy to keep as any other tropical fish.

Do discus really need daily water changes? Change your discus' water frequently if you can. But if you can't change it frequently, just make sure you change it at least once a week. In special cases you may need to change the tank's water daily. Examples include when rearing young fry or when medicating your discus.

What size tank for 2 discus fish? What Size Tank Do You Need for Discus? Bigger is always better, so we personally recommend a 75-gallon aquarium or larger. You can do a 55-gallon tank, but then you're forced to do a lot of water changes. Remember that these fish get big, usually 5 to 7 inches in diameter if you're doing things right.

How many discus per litre?

What is the best tank to breed discus?

What is the best filter for discus breeding? The most preferred Discus fish filters are mainly internal and HOB (hang on back) filters even though canister filters are also preferred for larger fish tanks. The main reason why internal and HOB filters are preferred for Discus fish is because Discus fish are very messy when they eat.

How big should a discus breeding tank be? To sum up a breeding aquarium for discus is... An aquarium of about 100 litres.

How do I know if my discus eggs are fertile? If the eggs were fertilized they will be a goldish color. If the eggs were not fertilized they will be a white cotton like color. The white eggs will not hatch and usually the discus pair will eat the white eggs.

How often will discus breed? When and if the discus spawn in this stage, they will lay eggs every week for up to fifteen weeks. This cycle usually occurs twice a year and can be rigged with careful adjustment of feeding, temperature and water conditions.

How do I stop my discus from eating their eggs?

Is breeding discus hard? In this case, 83% of readers who voted found the article helpful, earning it our reader-approved status. Discus are quite difficult to care for and breed, and you may not achieve a high survival rate for the young on your first attempt.

Why are my discus chasing each other? Fish aggression, which can be represented by chasing, body slapping and picking, is a sign of health. Sick discus fish never display aggression. A healthy fish may intimidate a sick fish, but two sick fish will not chase, nip and threaten one another with body slapping.

How can I make my discus grow faster? Temperature is also very important when growing out discus fish. The warmer your aquarium is the more it will stimulate appetite; your fish will eat more and grow faster.

What is the life span of discus? In home aquariums, discus live for an average of 10 years, but can live up to 15 years, and can grow up to 8 inches. Like many fish in

the home aquarium, they will eat almost anything that fits within their mouth. Due to their size, they often require a minimum 55 US gal (210 L) – 75 US gal (280 L) aquarium.

How do you know if discus is stressed? Common symptoms of stress include: Fish stays near the surface gasping for breath, indicating that it has trouble getting enough oxygen (the concentration of dissolved oxygen is highest near the water's surface).

What is the problem of discus fish? Some of the most common diseases and health issues that can affect Discus fish include: 1. Hole-in-the-head disease: This is a bacterial infection that causes lesions to form on the head and body of the fish. It can be caused by poor water quality, stress, or a lack of proper nutrition.

Do discus need UV light? A UV may not be essential, but they are a very handy tool for the Discus keeper.

Do discus like high flow? Discus fish do not like strong water currents. They, therefore, do not feel comfortable in planted high-tech aquariums with external high-performance filters, which are required to maintain such aquariums. The filter's flow rate should be at least 3 to 4 times the net volume of the aquarium.

Do discus need worming? All fish, including Discus, get worms. So, it's important that you deworm your Discus regularly. If possible, you can perform this treatment every 3-6 months.

Do discus need an air pump? Water circulation in your Discus fish tank is very important. The main purpose for the water circulation in the fish tank is to enable the Discus fish has enough supply of oxygen. There are two ways one can ensure water circulation in a fish tank, namely; by use of power heads and by use of air pumps.

Can you keep discus in a 200 Litre tank? So we recommend an aquarium of 180 litres as an absolute minimum size, and in this you can house a group of 10 juvenile Discus. 10 adult Discus (14cm +) without companion fish and minimal plants / bog wood etc will require a minimum of 350 litres.

How old is a 2 inch discus?

Which is the easiest breeding fish? Guppy (*Poecilia reticulata*) Guppies are one of the most popular beginner fish for the freshwater aquarium, and it's no wonder. They are very easy to care for, they breed readily, they come in a wide range of beautiful colors, and they get along well with other fish that are similar in size and temperament.

How often will discus breed? When and if the discus spawn in this stage, they will lay eggs every week for up to fifteen weeks. This cycle usually occurs twice a year and can be rigged with careful adjustment of feeding, temperature and water conditions.

Is it hard to breed fish? Most species of livebearers kept in home aquariums are generally easy to breed. Identifying sexes is usually easy as well. Males are generally larger and have larger, longer, more ornate, and more colorful fins than females.

How long does it take for baby discus to grow? A 2 ½ inch discus fish is only three months old when they are shipped to customers. The growth rate from 2 ½ inch to 4 inch keeping the fish in a small aquarium will only take four more months.

What fish reproduces the fastest? Guppy fish are livebearers. With proper maintenance and a living environment, guppy fish can reproduce once a month or twice every three months. The gestation period is about 21–30 days. They can produce 10-100 small fish at one time, while some even produce more than 100 fish each time.

What is the best fish to breed for profit? Although they may go for a higher price, don't breed fish like discus, stingrays, or rarer African cichlids because not enough people buy them and you'll end up with a surplus of fish. Instead, breed something like assorted guppies that sell for less but are always in demand.

What is the most low maintenance fish? What is the most low maintenance fish? Great pets for beginners that can be relatively low maintenance include some Tetras, Rasboras, Danios, White Cloud Mountain Minnows, Swordtails, Plaites, Mollies, Cory Catfish and Betta Fish.

Is breeding discus worth it? However, a guaranteed mated breeding couple may be a good idea since a pair of Discus usually mates for life. That said, you are looking at a very expensive proposition, mated pairs can run into the thousands, depending on the strain.

What is the best tank to breed discus?

What is the life span of discus? In home aquariums, discus live for an average of 10 years, but can live up to 15 years, and can grow up to 8 inches. Like many fish in the home aquarium, they will eat almost anything that fits within their mouth. Due to their size, they often require a minimum 55 US gal (210 L) – 75 US gal (280 L) aquarium.

How can I make my fish breed faster? Provide them with an abundance of high-protein food, feeding more often than you would normally feed your community aquarium fish, typically three times daily. You are preparing them for breeding, so they must have sufficient energy in their bodies for their own maintenance and growth as well as to produce eggs.

Why do my fish never breed? Some fish species are very sensitive to tank conditions such as pH level and temperature, and they are much less likely to breed when the tank is outside their optimal range.

Why fish does not breed in captivity? Some species are only available captive-bred, while others are notoriously hard to breed in captivity because their natural environments are hard to replicate in a tank.

At what size do discus start breeding? Females usually mate at about 9 months of age, while males usually mate at 13 months.

How do I get my discus to breed? Another way to initiate breeding in your discus fish is to separate the male and female pair. Using either a totally different tank, or a tank divider, you can separate the pair from each other, ensuring no contact is made between the two fish. During this time, the female should be readily fed.

How to grow discus fast? THE KEY TO EXPLOSIVE DISCUS GROWTH: FREQUENTLY CHANGING THE WATER. What do you think is the most important

thing you can do to help your discus grow huge? Well, Jack Wattley did an experiment proving that frequently changing your discus' water is one of the most important keys to massive discus growth.

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