

COLLISIONS AND CONSERVATION OF MOMENTUM LAB ANSWERS

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What is the answer to the conservation of momentum? Correct answer: The total momentum before the collision is equal to the momentum of each object added together. According to the law of conservation of momentum, the total momentum at the end must equal the total momentum at the beginning.

What does the conservation of momentum say about collisions? For a collision occurring between object 1 and object 2 in an isolated system, the total momentum of the two objects before the collision is equal to the total momentum of the two objects after the collision. That is, the momentum lost by object 1 is equal to the momentum gained by object 2.

Is the total momentum conserved in this collision explain your answer? Answer and Explanation: Momentum is conserved during a collision due to the change in velocity or mass of the objects after the collision occurs. Momentum has the formula $p=mv$, where p = momentum, m = mass and v = velocity.

What is an example of each type of collision in real life? Collisions between atoms and molecules are examples of elastic collision. In the macroscopic world, the collision between billiard balls is a close example of an elastic collision. Most collisions that occur every day are examples of an inelastic collision such as collision between two cars or a baseball hitting a bat.

How to solve momentum conservation?

How to solve for momentum after collision? A-Level Maths Tutor Summary: To work out momentum before and after a collision, use the formula $p=mv$, where p is

momentum, m is mass, and v is velocity. Before the crash, calculate each object's momentum and sum them for the total. After, do the same. If the collision is elastic, total momentum remains constant.

What is the formula for the collision? What is the formula of collision? From the conservation of momentum, the formula during a collision is given by: $m_1v_1 + m_2v_2 = m_1v'_1 + m_2v'_2$. If the collision is perfectly inelastic, the final velocity of the system is determined using $v' = (m_1v_1 + m_2v_2)/m_1 + m_2$.

How to know if momentum is conserved? Momentum is conserved when the mass of the system of interest remains constant during the interaction in question and when no net external force acts on the system during the interaction.

Which momentum is always conserved in collision? (iv) Total momentum is always conserved in collisions .

What is the best description of the conservation of momentum? The law of conservation of momentum states that in an isolated system the total momentum of two or more bodies acting upon each other remains constant unless an external force is applied.

What is the formula for conservation of momentum? The formula for the Law of Conservation of Momentum is $p=p'$ or $m_1v_1+m_2v_2=m_1v'_1+m_2v'_2$. This equation shows us that the sum of the momentum of all the objects in the system is constant.

What energy is lost during a collision? In physics, an inelastic collision occurs when some amount of kinetic energy of a colliding object/system is lost. The colliding particles stick together, and the maximum amount of kinetic energy is lost in a perfectly inelastic collision. In such cases, kinetic energy lost is used in bonding the two bodies together.

Why is momentum conserved but not kinetic energy? Momentum is conserved because of the forces on A and B are both equal and opposite. Kinetic energy is not conserved because object B has internal structure with some type of internal energy.

What are 2 main types of collisions?

How to tell if a collision is elastic or inelastic? If the kinetic energy stays the same both before and after the collision, it is elastic. If the kinetic energy changes after the collision in comparison to before the collision, it is inelastic.

What is an example of a conservation of momentum collision? We often utilize the law of conservation of momentum when looking at collisions. This law applies to both elastic and inelastic collisions. An elastic collision is one in which two objects collide and then bounce apart. This can be a basketball bouncing off the floor or one ball in a game of pool bouncing off another.

What is an example of a collision? collision, in physics, the sudden, forceful coming together in direct contact of two bodies, such as, for example, two billiard balls, a golf club and a ball, a hammer and a nail head, two railroad cars when being coupled together, or a falling object and a floor.

What happens when two objects with the same momentum collide? If you are talking about two objects hurtling towards each other, simple: because momentum is a vector - and although they have equal magnitude of momentum, when they collide, they stop moving. Total momentum after: = 0 ; momentum is conserved.

What is the formula for momentum collision? Before the collision, one car had velocity v and the other zero, so the centre of mass of the system was also $v/2$ before the collision. The total momentum is the total mass times the velocity of the centre of mass, so the total momentum, before and after, is $(2m)(v/2) = mv$.

What is the correct formula for momentum? The product of the units of mass and velocity is the unit of Momentum. To find the momentum, we can use the simple formula: $P=mv$, where P is the momentum.

What is the first step of solving conservation of momentum problems?

What is the equation of conservation of momentum? The formula for the Law of Conservation of Momentum is $p=p'$ or $m_1v_1+m_2v_2=m_1v_1'+m_2v_2'$. This equation shows us that the sum of the momentum of all the objects in the system is constant.

What is the answer to the conservation of linear momentum? the law of conservation of linear momentum states that if no external forces act on the system

of two colliding objects, then the vector sum of the linear momentum of each body remains constant and is not affected by their mutual interaction.

What is the answer for momentum? Momentum is a measure of how hard it is to stop a moving object, and it is the product of an object's mass and velocity. This can be shown by the equation below, where p = momentum (in kg-m/s), m = mass (in kg), and v = velocity (in m/s).

What is the conservation of momentum _____? The Law of Conservation of Momentum states: The total momentum before a collision is equal to the total momentum after a collision.

The Once and Future King, Book 1: The White Boar

What is The Once and Future King, Book 1: The White Boar?

The Once and Future King, Book 1: The White Boar is the first book in T.H. White's beloved fantasy series, The Once and Future King. It tells the story of the young King Arthur, known as the Wart, as he is tutored by the wise and eccentric Merlin.

What happens in The Once and Future King, Book 1: The White Boar?

The Wart is a clumsy and awkward boy who is often teased by his peers. However, Merlin sees great potential in him and takes him under his wing. Merlin teaches the Wart about life, history, and the importance of chivalry. Along the way, they encounter magical creatures and face dangerous challenges.

Who are the main characters in The Once and Future King, Book 1: The White Boar?

- **Wart:** The young King Arthur, who is also known as the Wart.
- **Merlin:** A wise and eccentric wizard who tutors the Wart.
- **Kay:** The Wart's older brother, who is a skilled warrior.
- **Sir Ector:** The Wart's foster father, who is a kind and honorable knight.

What are the themes of The Once and Future King, Book 1: The White Boar?

- **Coming of age:** The Wart learns about life, history, and the importance of chivalry from Merlin.
- **The power of education:** Merlin teaches the Wart the importance of knowledge and wisdom.
- **The importance of chivalry:** The Wart learns the code of chivalry from Merlin and Sir Ector.

Why is The Once and Future King, Book 1: The White Boar so popular?

The Once and Future King, Book 1: The White Boar is a well-written and engaging story that has captivated readers for generations. It is a classic fantasy novel that explores themes of coming of age, education, and chivalry.

Solutions to Animal Husbandry WAEC Practical

Question 1: Identify and describe the different breeds of cattle.

Answer:

- **Holstein-Friesian:** Black and white markings, high milk production
- **Jersey:** Small, fawn-colored, rich milk yield
- **Ayrshire:** Brown and white markings, medium milk production
- **Guernsey:** Golden-fawn color, high butterfat content in milk
- **Brahman:** Heat-tolerant, dark grey or white coat, good for beef production

Question 2: Describe the feeding schedule for broilers.

Answer:

Broilers require a high-energy diet to promote rapid growth. The feeding schedule is as follows:

- **Starter feed (0-3 weeks):** High protein and energy content
- **Grower feed (4-6 weeks):** Lower protein and energy content
- **Finisher feed (7-9 weeks):** Highest energy content to prepare for slaughter

Question 3: Explain the importance of deworming livestock.

Answer:

Deworming is crucial because internal parasites can cause health issues such as:

- Reduced growth and weight gain
- Anemia
- Diarrhea and weight loss
- Damage to internal organs
- Reduced fertility

Question 4: Describe the signs and symptoms of Newcastle disease in poultry.

Answer:

- **Respiratory symptoms:** Sneezing, coughing, gasping for air
- **Nervous symptoms:** Tremors, circling, paralysis
- **Digestive symptoms:** Diarrhea, vomiting
- **Eye symptoms:** Swelling, discharge, blindness
- **Reproductive symptoms:** Reduced egg production, infertility

Question 5: Explain the purpose of castration in livestock production.

Answer:

Castration is performed to:

- Prevent unwanted reproduction, controlling population growth
- Improve meat quality by reducing boar taint and buck odor
- Promote better behavior, reducing aggression and roaming tendencies
- Facilitate handling and management of livestock

Writers Inc.: Patrick Sebranek and Ed Pope on the Art of Writing

Q: What inspired you to establish Writers Inc.?

Patrick Sebranek: Writers Inc. was founded in 1997 as a way to connect with other writers and share our work. We offer workshops, critique groups, and writing contests to help our members develop their craft.

Q: How has the organization evolved over the years?

Ed Pope: Over the past 25 years, Writers Inc. has grown from a small group of enthusiasts to a thriving community of over 600 members. We now offer a wide range of programs and services, including online workshops, a literary journal, and an annual conference.

Q: What are the benefits of joining Writers Inc.?

Patrick Sebranek: Members of Writers Inc. benefit from a supportive and encouraging environment where they can connect with other writers, receive feedback on their work, and learn from experienced professionals.

Q: What advice do you have for aspiring writers?

Ed Pope: Writing is a craft that requires practice and dedication. Join a writing group, read widely, and don't be afraid to ask for feedback. Most importantly, never give up on your dream of becoming a writer.

Q: What are the goals and aspirations for Writers Inc.'s future?

Patrick Sebranek: We aim to continue providing our members with the resources and support they need to succeed as writers. We also hope to expand our reach and connect with even more people who are passionate about the written word.

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