

# Projectile Motion Practice Problems

## Part 1: Matching and Multiple Choice

Match the term on the left to its definition on the right.

- |                     |  |
|---------------------|--|
| ___ impact velocity | A. the path of a projectile                                |
| ___ launch angle    | B. the horizontal distance travelled by a projectile       |
| ___ projectile      | C. the angle the velocity vector makes with the horizontal |
| ___ range           | D. an object on which gravity is the only force acting     |
| ___ trajectory      | E. the velocity of a projectile when it lands              |

- An object is launched with an initial velocity of 3 m/s [right] and 4 m/s [up]. At the highest point in its trajectory, the speed of the object is:  
A. 3 m/s                      B. 4 m/s                      C. 5 m/s                      D. zero
- An object is launched with an initial velocity of 3 m/s [right] and 4 m/s [up]. At the highest point in its trajectory, the acceleration of the object is:  
A. 3 m/s<sup>2</sup> [right]            B. 4 m/s<sup>2</sup> [up]              C. 9.8 m/s<sup>2</sup> [down]        D. zero
- A rescue airplane drops a relief package while it is moving with a constant horizontal speed. Assuming that air resistance is negligible, where will the package land relative to the plane?  
A. below the plane in flight and behind it  
B. directly below the plane in flight  
C. below the plane in flight and ahead of it
- A zookeeper must shoot a banana from a cannon to a monkey who hangs from the limb of a tree. The monkey will drop from the tree the moment that the banana leaves the cannon. Where should the zookeeper aim the banana cannon?  
A. above the monkey            B. below the monkey            C. at the monkey



# Projectile Motion Practice Problems With Answers

**Daniel F McAuley**



**Projectile Motion Practice Problems With Answers:**

## Decoding **Projectile Motion Practice Problems With Answers**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Projectile Motion Practice Problems With Answers**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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