

## Uniformly Accelerated Motion

Uniformly accelerated motion occurs when a body travels in a straight path, and its velocity increases by the same amount every time interval.

Example:

Assume you are riding a vehicle and observed the speedometer reading below

| Elapsed Time    | Speedometer Reading |
|-----------------|---------------------|
| After 1 minute  | 10 m/s              |
| After 2 minutes | 20 m/s              |
| After 3 minutes | 30 m/s              |

## Two Types of Uniformly Accelerated Motion

### 1. Horizontal Dimension

- Happens at x-axis
- Motion straight in the ground
- Example:
  - an airplane preparing for take off
  - ball rolling down an incline

### 2. Vertical Dimension

- Happens at y-axis
- Also called free fall
- Motion upward and downward
- Example:
  - ball thrown vertically straight
  - object dropped from a certain height

NAME: \_\_\_\_\_ SECTION: \_\_\_\_\_

Seatwork. Classify the following motion as HORIZONTAL or VERTICAL.  
Type HORIZONTAL or VERTICAL in the box.

- \_\_\_\_\_ 1. a falling leaf
- \_\_\_\_\_ 2. a racing car
- \_\_\_\_\_ 3. a ball that is tossed upward
- \_\_\_\_\_ 4. a ball that is thrown
- \_\_\_\_\_ 5. rocket launch
- \_\_\_\_\_ 6. a jeep going to San Fernando
- \_\_\_\_\_ 7. a coin tossed upward
- \_\_\_\_\_ 8. a bullet train
- \_\_\_\_\_ 9. basketball player passes the ball to a teammate
- \_\_\_\_\_ 10. airplane crashed

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