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 x-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 toss upward

_____4. a ball that is thrown

_____5. rocket launch

_____6. a jeep going to San Fernando

_____7. a coin toss upward

_____8. a bullet train

_____9. basketball player passes the ball to a teammate

_____10. airplane crashed

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