

Answer on another sheet of paper

MOTION & FORCES MASH-UP!

For each scenario below...

- Create a Motion Map
- Create a Position vs. Time graph
- Create a Velocity vs. Time graph
- Create a Force Diagram
- Is there an unbalanced force? Explain.
- In which direction is acceleration?

Scenario #1

A skydiver is descending with a constant velocity.

Scenario #2

Jenn's is sitting in her car waiting for the stoplight to turn green.

Scenario #3

An egg is free-falling from a nest in a tree.

Scenario #4

Mannie is in a hot air balloon and is accelerating upward.

Scenario #5

Patrick is pulling a trailer in his car. The car is accelerating down Harrodsburg Road. Draw and answer questions for the trailer.



Scenario #6

You are lifting a bag of sugar up at constant velocity.