

Module 01 - Lesson 1

Motion Diagrams

Question 1: A bicycle is breaking to a stop at a red light. Draw a basic motion diagram from the time when the bicycle starts braking until the time it stops.

Question 2: A stone is free falling from a height of 100 meters in 4.5 seconds. Draw a basic motion diagram from the time the stone starts falling until it reaches the ground.

Question 3: A ball is moving from left to right on the horizontal, as shown in a flash strobe diagram in Fig. 1, where the flash strobe photographs were taken every second. Is the ball slowing down or speeding up? Explain.

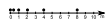


FIG. 1: Flash strobe diagram of a moving ball.