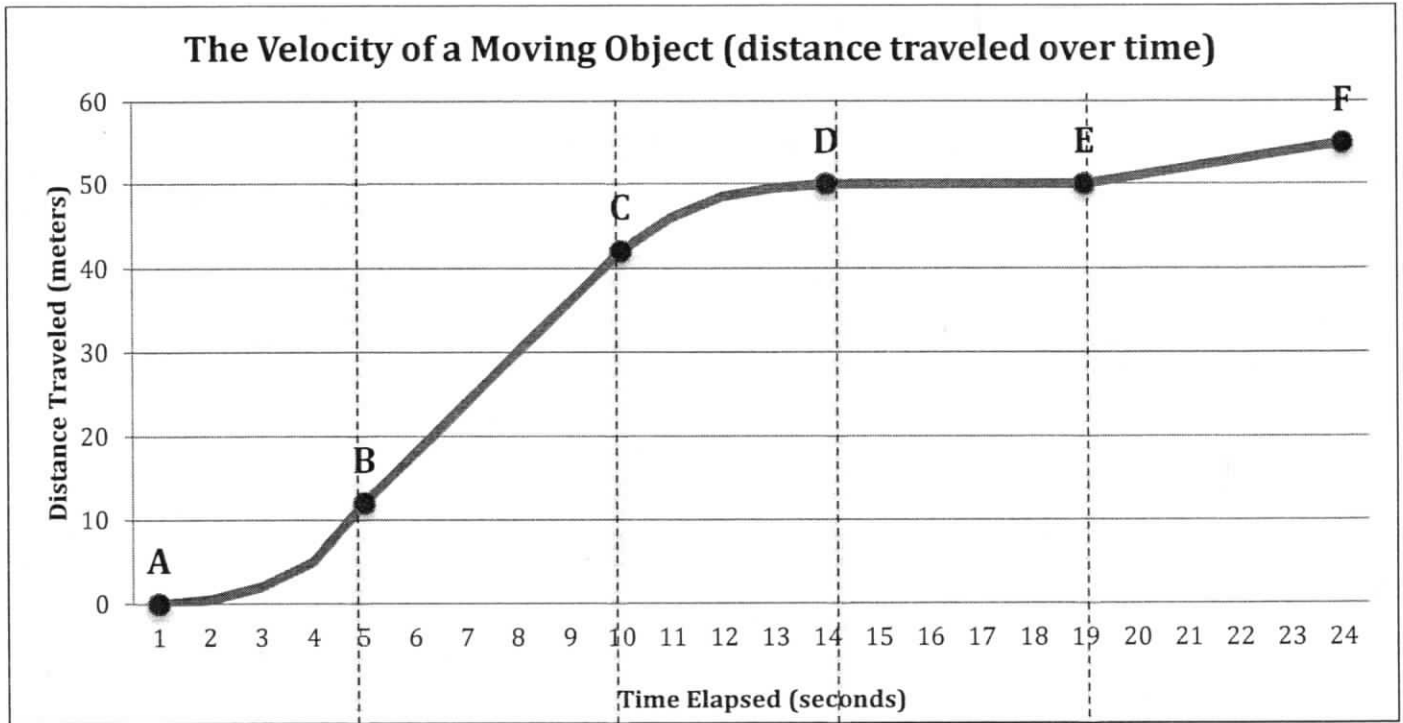


## Motion Graph Analysis Worksheet

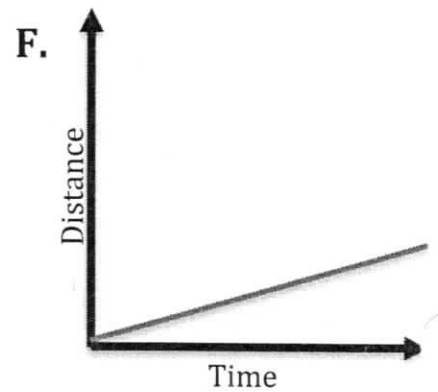
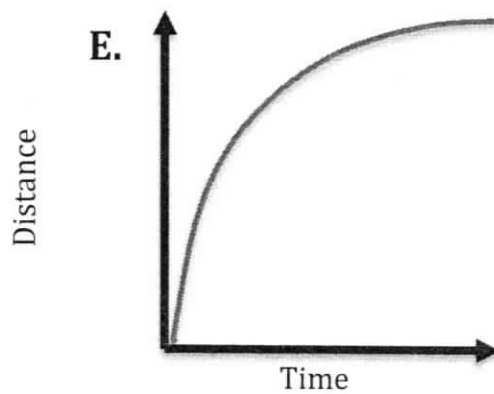
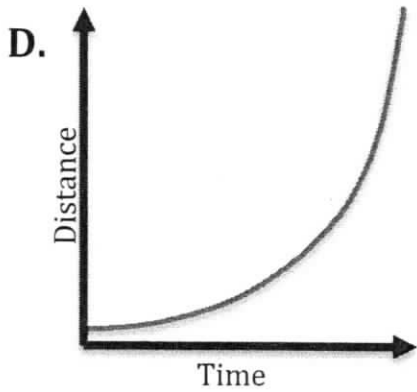
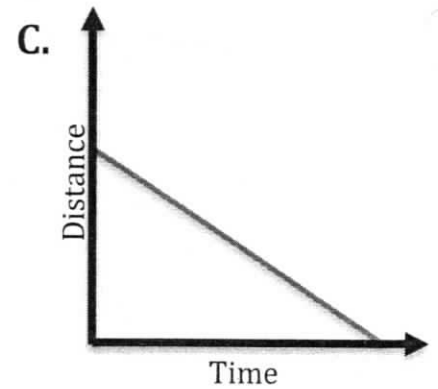
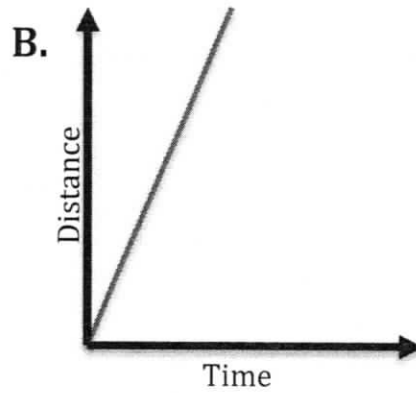
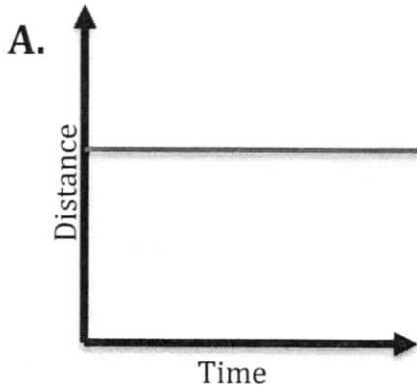


**Analysis Questions:** Answer the following questions in your journal below your foldable graph.

1. Between which two letters is the rate of speed the fastest? Why?
2. The least amount of distance covered occurs between which two letters?
3. Identify the type of motion occurring between letters C and D?
4. During the total journey, how many total seconds pass when the object not in motion?
5. Calculate the average speed between letters B and C.
6. How much distance did the object cover over the entire journey?
7. Calculate the average speed for the entire journey from point A to point F.
8. Write a short story (3-5 sentences) that describes a situation with the motion experienced in the graph.

# Motion Graph Analysis

Name \_\_\_\_\_ Per \_\_\_\_\_



## Descriptions of Motion

1. Acceleration—(speed is increasing as time goes by)
2. Constant Speed (high rate of speed)
3. Constant Speed (low rate of speed)
4. Negative Acceleration (deceleration, Speed is decreasing as time goes by)
5. No Motion (stopped)
6. Moving Backwards (constant velocity in reverse)

Graph A matches description \_\_\_\_ because \_\_\_\_\_.

Graph B matches description \_\_\_\_ because \_\_\_\_\_.

Graph C matches description \_\_\_\_ because \_\_\_\_\_.

Graph D matches description \_\_\_\_ because \_\_\_\_\_.

Graph E matches description \_\_\_\_ because \_\_\_\_\_.

Graph F matches description \_\_\_\_ because \_\_\_\_\_.