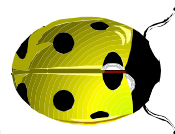


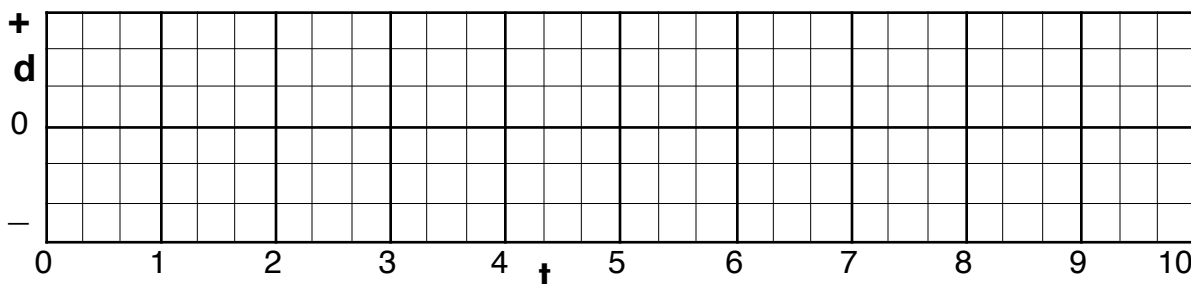
# Kinematics Animated Graphs Worksheet



This worksheet is done in conjunction with a projected series of graphs. The animated graphs can be found at <http://physics.k12albemarle.org/teacher/KinematicsGraph/animatedgraphs>

## GRAPH 1

Watch the animation (several times) and draw what you think the displacement vs time graph should look like for the beetle's motion.

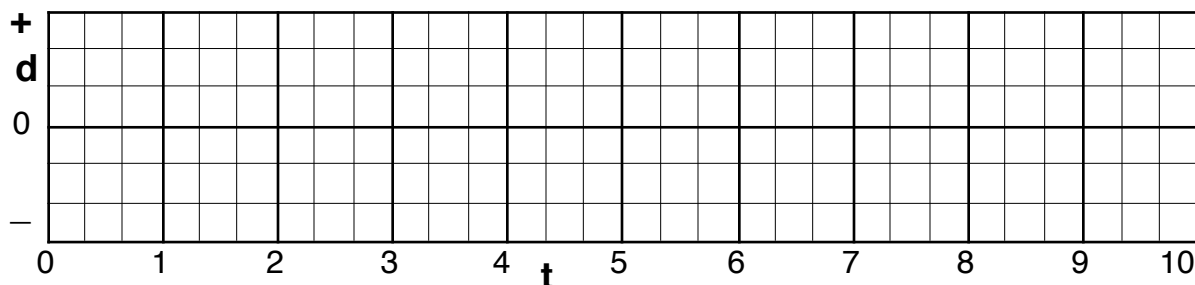


After seeing the animation and the solutions, answer the following:

- 1) Circle the piece(s) of your graph where the beetle is moving towards the "more negative" direction.
- 2) What is the sign of the SLOPE of these circle sections of the graph? (Pos or Neg)
- 3) Draw a dark "X" on the graph where the beetle is not moving?
- 4) What is the value of the slope for these section(s)? \_\_\_\_\_
- 5) During which time interval is the beetle traveling the slowest? \_\_\_\_\_
- 6) During which time interval on the graph is the slope the smallest number, (absolute value), without being zero? \_\_\_\_\_
- 7) What does the slope represent on this graph? \_\_\_\_\_

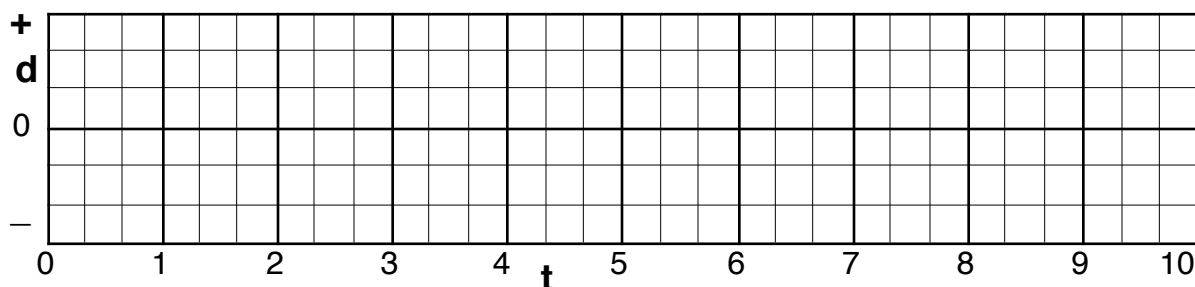
## GRAPH 2

Watch the animation (several times) and draw what you think the displacement vs time graph should look like below.

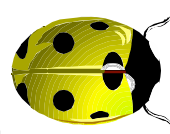


## GRAPH 3

Watch the animation (several times) and draw what you think the displacement vs time graph should look like below.

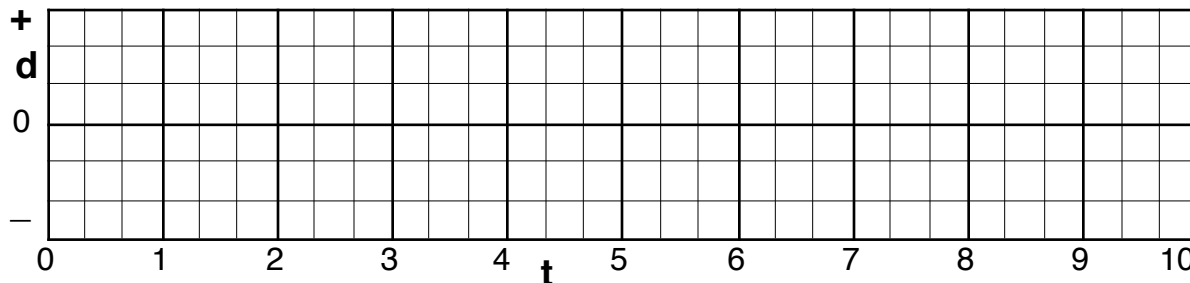


# Kinematics Animated Graphs Worksheet



## GRAPH 4

Watch the animation (several times) and draw what you think the displacement vs time graph should look like below.



## GRAPH 5

This time you will see a graph. Write the motion of the beetle down. (You do not have to use all the blanks below.)

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_

## GRAPH 6

This time you will see a graph. Write the motion of the beetle down. (You do not have to use all the blanks below.)

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_