

PHYSICS WORK SHEET-Representing motion



UNITED ARAB EMIRATES  
MINISTRY OF EDUCATION

GR..... Name:\_\_\_\_\_ Date:\_\_\_\_\_

1. Draw a particle model motion diagram for a bike rider moving at a constant pace along a straight path.
2. Draw a particle model motion diagram corresponding to the motion diagram in Figure for a car coming to a stop at a stop sign. What point on the car did you use to represent the car?



3. Draw a particle model motion diagram corresponding to the motion diagram in Figure for a flying bird. What point on the bird did you choose to represent the bird?



4. **Critical Thinking** Draw particle model motion diagrams for two runners during a race in which the first runner crosses the finish line as the other runner is three-fourths of the way to the finish line.
5. Identify a coordinate system you could use to describe the motion of a girl swimming across a rectangular pool.