
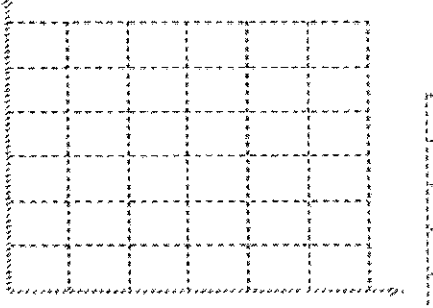

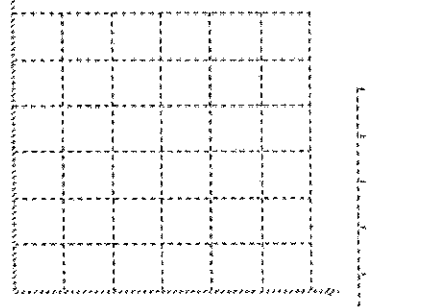
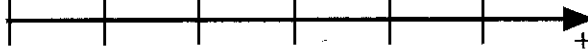
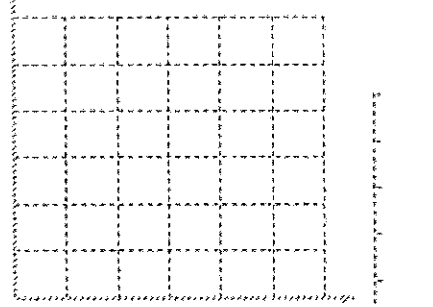

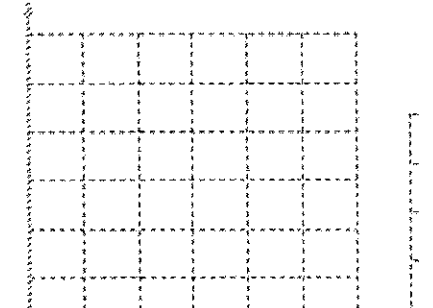
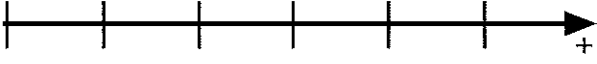
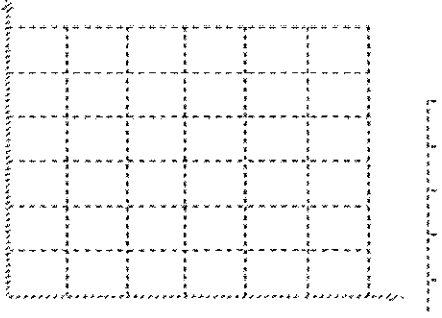
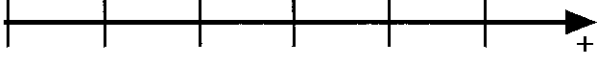
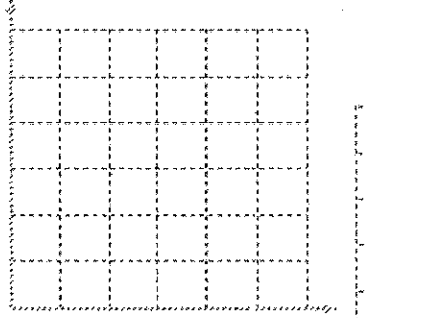

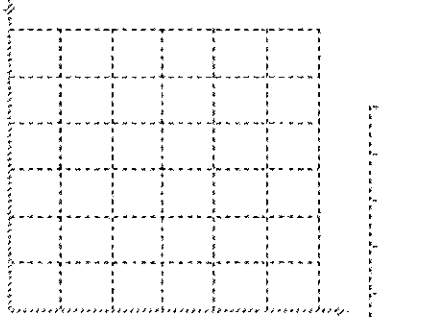


## Constant Velocity Particle Model Worksheet 2: QUALITATIVE

### Motion Maps and Position vs. Time Graphs

Sketch **motion maps** and the **position vs. time graphs** corresponding to the following descriptions of the motion of an object.

<p>1. The object starts at a positive position and moves at a constant positive velocity.</p> <p>Motion Map: 0 m</p> 	
<p>2. The object starts at a positive position and is standing still for 5 seconds.</p> <p>Motion Map: 0 m</p> 	
<p>3. The object starts at a positive position and moves at a constant negative velocity for 2 seconds, stops for 1 second, and moves at a greater positive velocity for 1 second.</p> <p>Motion Map: 0 m</p> 	
<p>4. The object begins at 0m, moving at a small positive velocity for 4 seconds. Then it stops for 2 seconds, and moves at a slower positive velocity for 2 seconds. Then it stops for 3 seconds and moves at a negative velocity for 3 seconds.</p> <p>Motion Map: 0 m</p> 	

<p>5. The object starts at 0 m and is moving at constant positive velocity. Then it stops for 3 seconds</p> <p>Motion Map: 0 m</p> 	
<p>6. The object starts at a positive position m and moves at a negative speed but slowing down to a stop for 3 seconds. Then it stops for 2 seconds and moves at a low positive velocity for 3 seconds.</p> <p>Motion Map: 0 m</p> 	
<p>7. The object starts at 0 m and speeds up in a positive direction for 3 seconds (acceleration), stops for 1 second, and moves at a negative velocity for 2 seconds.</p> <p>Motion Map: 0 m</p> 	
<p>8. The object starts at 0 m and stops for 4 seconds. Then it speeds up for 4 seconds in the positive direction and then slows to a stop in 4 more seconds.</p> <p>Motion Map: 0 m</p> 