

# Position vs. Time Graphs:

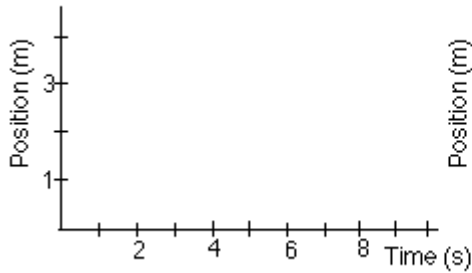
Name \_\_\_\_\_ Date \_\_\_\_\_ Class \_\_\_\_\_ EN \_\_\_\_\_

For each motion below, sketch your prediction for its position vs. time graph on the axes on the left. Then perform the motion and sketch the graph produced by the motion detector on the axes on the right.

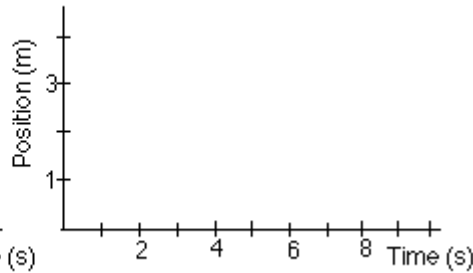
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1. **Motion:** You remain at rest (motionless) at the 2 meter mark from the detector.

**Predicted**



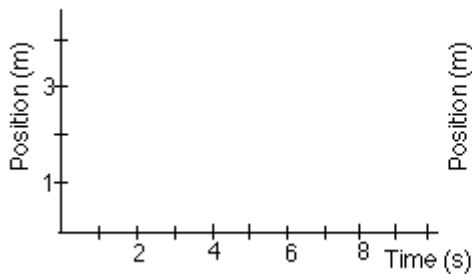
**Measured**



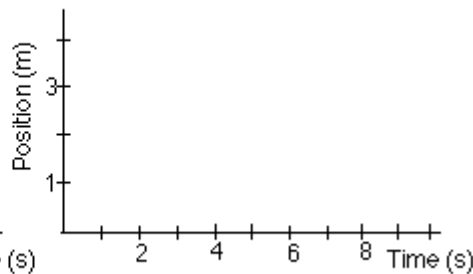
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2. **Motion:** You walk slowly from the 1 meter mark to the 3 meter mark.

**Predicted**



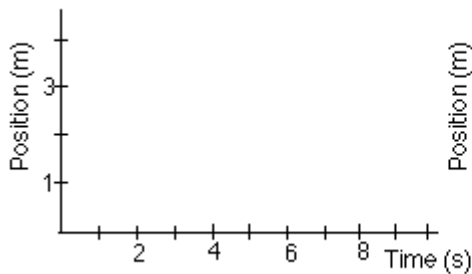
**Measured**



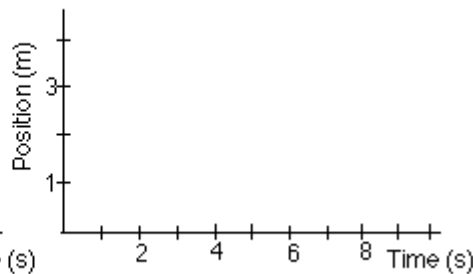
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3. **Motion:** You walk slowly from the 3 meter mark to the 1 meter mark.

**Predicted**

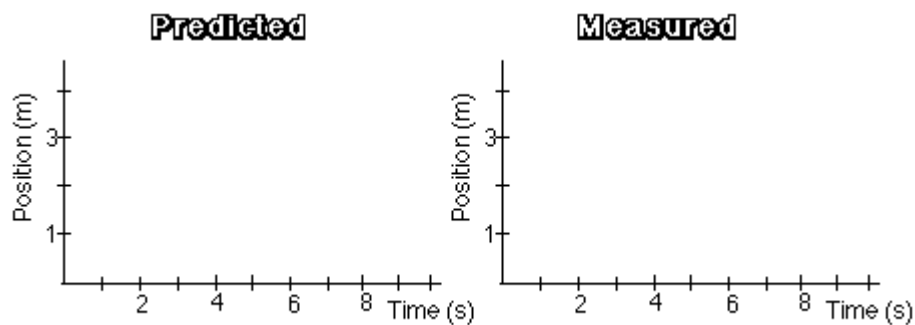


**Measured**



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4. **Motion:** Starting at the 1 meter mark, you walk slowly to the 3 meter mark, then quickly back to the 1 meter mark.



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5. **Motion:** Starting at the 3 meter mark, walk quickly to the 2 meter mark. Wait there for 2-3 seconds, then walk very slowly to the 0.5 meter mark.

