

Inquiry **MiniLab**

LESSON 2: 15 minutes

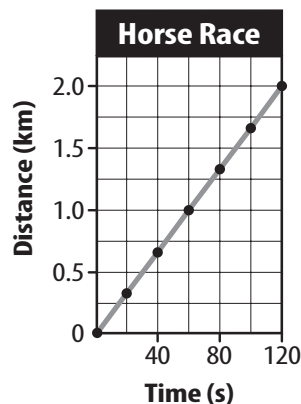
How can you graph motion?

You can represent motion with a distance-time graph.

Procedure

1. Read and complete a lab safety form.
2. Use **masking tape** to mark a starting point on the floor.
3. As you cross the starting point, start a **stopwatch**. Stop walking after 2 s. Measure the distance with a **meterstick**. Record the time and distance in your Science Journal.
4. Repeat step 3 by walking at about the same speed for 4 s and then for 6 s.
5. Use the graph here as an example to create a distance-time graph of your

data. The line on the graph should be as close to the points as possible.



Data and Observations

Analyze and Conclude

1. **Predict** Based on the graph, how far would you probably walk at the same speed in 8 s?

2. **Key Concept** Look back at the average speed equation. Explain how you could use your graph to find your average walking speed.
