

## STUDY GUIDE

### Science Quiz – Chapter 1: Motion and Momentum

Wednesday, November 24

#### To prepare for this quiz, you should review:

- Your notes
- The Speed Word Problem packet
- Types of Speed note sheet
- Average Speed lab
- Graphing Motion lab
- Distance vs. Time Graph worksheets
- Momentum and Inertia lab
- Chapter 1 in your textbook, Chapter 1 review questions (pgs. 30-31), Standardized Test Practice (pgs. 32-33)
- Remember you can also access the textbook and study resources at [bookm.msscience.com](http://bookm.msscience.com) Use the access code D1A776AD75

#### Vocabulary to know:

- Distance vs. displacement
- Constant speed
- Variable speed
- Instantaneous speed
- Average speed
- Slope (of a line on a graph)
- Mass
- Inertia
- Momentum
- Law of Conservation of Momentum

#### You should be able to:

- Distinguish between the distance traveled by an object and the displacement of an object.
- Solve speed word problems using the GUFUPS method. You need to know the formula.
- Describe an object's motion in terms of constant, variable, instantaneous, and average speed.
- Interpret a distance vs. time graph – when is the object going fastest? When is it stopped? Etc.
- Create a distance vs. time graph based on a story.
- Distinguish between the inertia of an object and the momentum of an object.
- Describe how momentum is transferred during collisions based on the Law of Conservation of Momentum.

#### When can you get extra help?

- I am available Thursday, Friday, Monday, and Tuesday after school. You can take the elementary bus home any of those days, or the late bus on Thursday and Tuesday.