

# Runaway Train!

## Pre-Activity Worksheet KEY

*Instructions: Read the questions and write your answer in the space below or circle the letter for multiple choice questions. Pick only one answer for multiple choice questions.*

1. What gets you excited about science or math?

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2. If you were given the chance to create a science lesson which method would you use?

- a. lecture;
- b. read textbook;
- c. watch movie;
- d. conduct hands- on activity;
- e. research on the internet

3. Do you think robotics can be helpful when used to collect data in science experiments?

- a. Yes
- b. No
- c. Unsure

4. What is the force that pulls anything with mass toward the earth?

- a. Magnetism
- b. Gravity**
- c. Friction

5. Speed is a measurement of how fast an object moves. Velocity is the speed and \_\_\_\_\_ of an object in motion.

- a. Mass
- b. Direction**
- c. Weight

6. Speed is expressed by units of LENGTH (Ex: meters, feet) divided by \_\_\_\_\_.

- a. TIME (second)**
- b. MASS (grams)
- c. LENGTH (meters, feet)

7. As a car rolls down a hill, which of the following is true?

- a. Its potential energy increases and its kinetic energy decreases.
- b. Its potential energy decreases and its kinetic energy increases.**
- c. Both its potential energy and kinetic energy increase.
- d. Both its potential energy and kinetic energy decrease.