

# *Roller Coaster Essentials*

## *Do This Before Riding:*

Directions: Match the word in the numbered Column with the description in the lettered column.

- |                           |  |
|---------------------------|--|
| _____ 1. Mass             | A. Push or Pull  |
| _____ 2. Acceleration     | B. Shape of a roller coaster hill  |
| _____ 3. Friction         | C. Going down a roller coaster hill  |
| _____ 4. Velocity         | D. What causes objects to have inertia                                       |
| _____ 5. Inertia          | E. Going up a roller coaster hill  |
| _____ 6. Momentum         | F. Energy of Motion  |
| _____ 7. Kinetic Energy   | G. Resistance to motion caused by rubbing                                    |
| _____ 8. Parabola         | H. Energy of position.   |
| _____ 9. Potential Energy | I. Object's speed in a given direction                                       |
| _____ 10. Force           | J. Change in speed and/or direction  |
|                           | K. Tendency of matter to resist, moving in the same direction. = $m \cdot a$ |
|                           | L. Tendency to remain at rest or move at a constant speed a straight line.   |