

## GENERAL QUESTIONS

### FILL IN THE BLANKS WITH THE TERMS IN THE GLOSSARY ON PAGES 4 & 5

1. When a roller coaster is at the top of a hill, it has the most \_\_\_\_\_ energy?
2. \_\_\_\_\_ of an object refers to its speed and direction.
3. When riding a spinning ride, the riders feel an inward force known as \_\_\_\_\_ force.
4. \_\_\_\_\_ is the number of repeated events per unit time.
5. Riders on the Sky Coaster feel a sense of \_\_\_\_\_ as they begin their swinging.
6. Rocket Re-Entry, Blast Off!, Tidal Wave, Sky Coaster and the Catapult all have what physics principle in common? \_\_\_\_\_
7. Rides at Lagoon are all slowed down by this force \_\_\_\_\_.
8. Most waves need a \_\_\_\_\_ to travel through.
9. The Top Eliminator race cars have the same \_\_\_\_\_ both here on Earth and on the Moon, but their \_\_\_\_\_ is less on the moon.
10. The motors are performing \_\_\_\_\_ on the Tidal Wave as the ride begins swinging.
11. Distance from crest to crest or trough to trough on a wave is known as the \_\_\_\_\_.
12. \_\_\_\_\_ is felt when rapid changes in speed or direction occur.
13. If the net external force acting on a system of objects is zero, the total momentum of the system is \_\_\_\_\_.
14. When bumper cars hit into one another head on and bounce back, this is an \_\_\_\_\_ collision.
15. As the roller coaster descends down the top of the hill, the \_\_\_\_\_ energy is rapidly converted to \_\_\_\_\_ energy?
16. \_\_\_\_\_ is the average force multiplied by its time interval of action.
17. Riders on the Colossus feel heavier than normal when they ride through the loops. This is known as the \_\_\_\_\_.