

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 _____.