

The Physics behind the Carousel Ride

Carousels rotate on a stationary center pole and are powered by electric motors. The seats are traditionally in the form of rows of horses. The word "carousel" is a French word that means "a tilting match". With all of its beauty and seeming simplicity, the carousel is a delicate balance of motion and forces. All of the horses move through one complete circle in the same amount of time. In a normal carousel, each horse maintains a constant acceleration, radius, speed.

Newton's first law states that an object in motion stays in motion and that motion is in a straight path, not a circular path. Centripetal means 'center-seeking' and is the force that is acting on the carousel. The platform upon which the horses and people are riding is the **centripetal force** that keeps them traveling in a circular motion. As long as the ride is moving slowly enough, the centripetal force of the platform can keep everyone and everything on board. **Velocity** is the speed of something in a given direction. When we ride on a carousel our **speed** does not change but the velocity changes. This is due to the fact that the linear speed of the riding person is constant but the direction of its motion continuously changes along the circular path. In addition, the speed of the ride is low in order to keep centrifugal force low because the faster it turns the more centrifugal force the ride will have. **Acceleration** is a measure of the change in velocity of a moving object. As the carousel turn and changes in velocity, it accelerates. **Displacement** is the moving of something from its place or position. For some carousel, horses move up and down. The vertical displacement of the horses follows that of simple harmonic motion, with one up-and-down cycle.

The conceptual and contextual applications of the **laws of Physics** in Amusement Parks particularly, a Carousel is essential for fun experience while keeping the rides safe. Understanding it is a great way to give you an appreciation of the dynamics of the various ride



Physics Day Carousel Lab Answer

JR Anderson

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