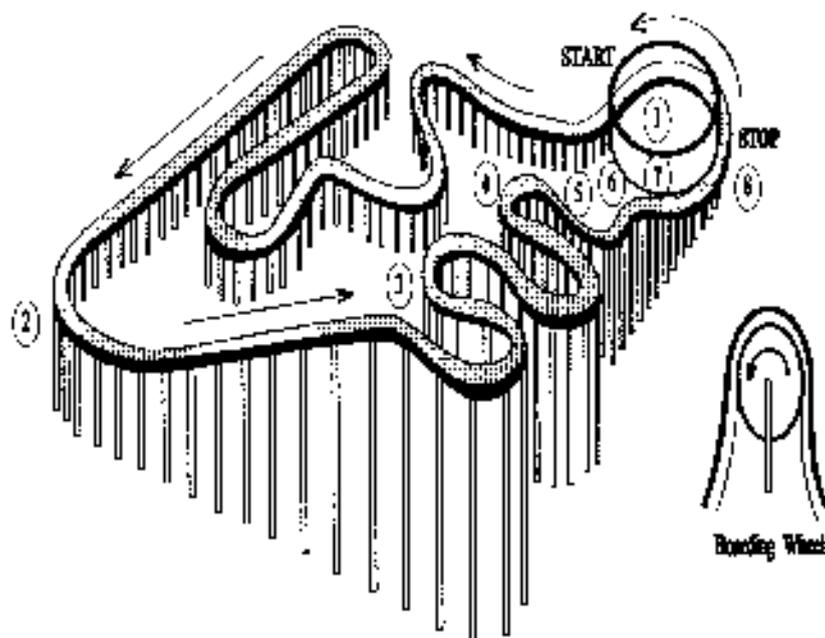


LOGGER'S RUN®



1. Describe your sensations when you first step on the "boarding wheel." For example, describe your acceleration at the instant you step on the wheel.
2. After you have been on the wheel for a few seconds, describe your motion in terms of your velocity and acceleration.
3. What is the relative velocity between you and the boat as you board your boat?
4. Calculate the centripetal acceleration of a person standing on the wheel.
5. Describe the energy transformations that occur to you and your boat between the time you leave the boarding area and the time you start to ascend the incline plane.
6. Determine the minimum amount of work the electric motor must do to lift a loaded boat to the top of the big ramp. Assume no frictional forces are acting.
7. Determine the horsepower of the motor. Assume no friction.
8. Calculate the acceleration of a boat as it slides down the big slide. Express your answer in "g's."
9. Why do passengers lunge ahead when they reach the bottom of big slide?
10. Determine the net work done on a boat and its passengers for complete trip around the ride.