

SKY RIDE

1. Measure a distance on the ground under the Sky Ride. This could be between two pillars, or any other spot you choose. Measure this distance in feet or meters (your choice), make sure to include units in your answer. (You could approximate distance by stepping it off, figure out how long your walking stride is and then count the steps between pillars).

Area measured _____ Distance _____

2. Time one sky car traveling your measured distance. Record the time. Repeat for 2 more cars and determine an average time.

Car #1 time _____ Car #2 time _____ Car #3 time _____
Average time _____ (Add the 3 times then divide by 3)

3. Calculate the average speed of the Sky Ride: $\text{Speed} = \text{Distance}/\text{Time}$

Average speed of Sky Ride = _____

4. Now get on the ride and time yourself from the beginning to end. If the ride stops, make sure to stop timing until the ride starts again.

Time for entire ride in seconds _____

5. Calculate distance of ride: $\text{Distance} = \text{speed} \times \text{time}$

Distance of ride _____

6. Using the following conversions, record the distance of the ride in feet, meters, miles, and kilometers.

1 mile = 5,280 feet = 1,609 meters

1 foot = 0.3048 meters or 1 meter = 3.281 feet

1 kilometer = 0.6214 miles = 3,281 feet = 1,000 meters

Feet: _____ Miles: _____

Meters: _____ Kilometers: _____

Conclusion: Based on the distance of the Sky Ride, how far do you think you will walk today during USU's Physics Day at Lagoon?

_____ Thanks to Bonnie Meaders, Wahlquist Jr. High