

Zipline Proposal



The conclusion of the zipline experiment

Stats

What we are working with.

During this experiment our length was kept the same so it was fair.

start height	Time
40cm	∞
80cm	$\frac{1}{2}$
1.2 meters	2.40 seconds
1.4 meters	1.68 seconds
1.6 meters	1.58 seconds
1.8 meters	1.22 seconds
2 meters	1.20 seconds
2.2 meters	1.08 seconds
vertical	0.45 seconds

start height conclusion

A recommended action for the height of the start point..

The aim of a zipline is to be fun and exhilarating whilst also not causing any damage to the participant or frigten.

The downsized experiment.

Our experiment at first smaller scaled and not as realistic.



Full sized

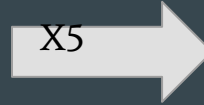
5 times larger giving the zipline a full 10 seconds of ride time and 10 meters long.

Measurements

The lengths of the plan
for the zipwire.

10 meters

10 seconds of zipwire time



Start height	Time
40cm	
80cm	½
1.2 meters	2.40 seconds
1.4 meters	1.68 seconds
1.6 meters	1.58 seconds
1.8 meters	1.22 seconds
2 meters	1.20 seconds
2.2 meters	1.08 seconds
vertical	0.45 seconds

Conclusion

The conclusion of this experiment is that the higher the zip line the faster it goes.

This means that if we scale our experiment by 5 to get a ten metre zip wire then it would be an enjoyable experience.

To get the right speed to carry the rider across you would need a small tower at the start point.