

Data	Small Gear	Large Gear
Force measurement – horizontal	.27 N	.17 N
Force measurement – vertical	1.57 N	1.55 N
Speed test – trial 1	3.32 seconds	5.06 seconds
Speed test – trial 2	3.36 SRCOAds	G.36 SREOND
Speed test – trial 3	. 3.8 seconds	4.45 seconds
Speed test - average	3.49	5.295

## Conclusion

- 1. Which gear provides more horizontal force to the motor? Use evidence to support your answer.
- 2. Why did we measure the force in the vertical direction?
- 3. Which gear is better for speed? Use evidence to support your answer.