

STAAR Science Tutorial 21 TEK 6.8D: Graphing Motion

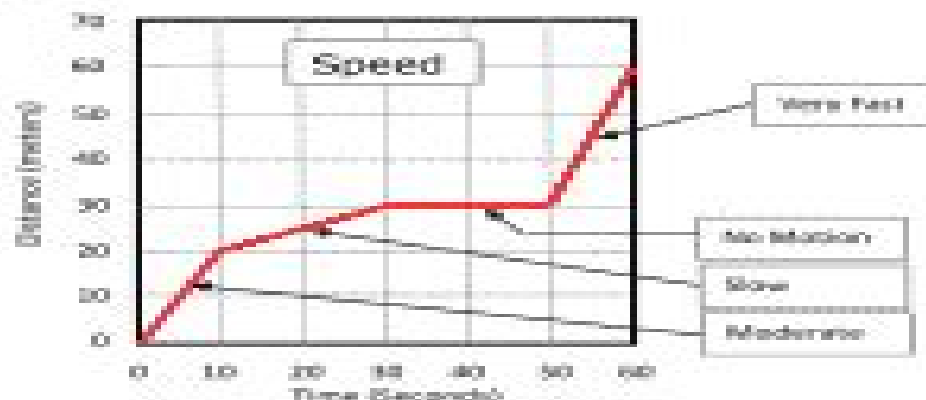
TEK 6.8D: Measure and graph changes in motion.

Graphing Speed on a Distance – Time Graph

- Speed** is defined as the distance travelled divided by the time it took to travel that distance. **Distance** is the length of the path travelled, following all of the turns or curves of the path. The formula for speed is:

$$\text{Speed} = \frac{\text{Distance}}{\text{Time}}$$

- To graph speed, the total distance traveled at each point of time is graphed on the y-axis, and the elapsed time since the start of measurement is graphed on the x-axis. Because speed does not include direction, any motion is considered forward motion, even if it is back towards the starting point. Lines on a speed graph can either be flat, for no motion, or upward sloping, for motion. The steeper (more vertical) the slope, the faster the speed.
- The graph below shows a trip in which the speed was moderate during the first time interval, slower in the second time interval, had no speed in the third interval, and very fast speed in the fourth and last interval.



- During the first 10 seconds, the object moved 20 meters. During the next 20 seconds, the object moved an additional 10 meters, for a total of 30 meters in 30 seconds. During the next 20 seconds, the object did not move at all. Total motion is still 30 meters after 50 seconds. During the last 10 seconds, the object moved 30 meters. The total motion was 60 meters in 60 seconds.

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Jiyuan Zhang



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