Unit E1 • Potential and Kinetic Energy SPEED VS. VELOCITY

Speed is a type of rate that measures how long it takes to travel a distance.

Velocity measures how fast something is moving plus the direction that the object is moving. So a car driving from Baltimore, Maryland, to Norfolk, Virginia, might have a velocity of 70 miles per hour south.

On Monday, you rode your bike on the direct road from point A to point B in exactly one hour without stopping.

On Tuesday, you rode your bike on the curvy road from point A to point B in exactly one hour without stopping.

Did you ride your bike at a greater average speed on one of the roads? Absolutely!! The curvy one!



Here's another problem to think about:

On Wednesday, you rode your bike at 15 miles per hour from Point A to Point Y. On Thursday you rode your bike at 15 miles per hour from Point A to Point Z. That means that you traveled at the same speed on both Wednesday and Thursday. Right? Right.

But in this case, the average velocity is not the same.

TURN AND TALK: Why is the average velocity different?

Point A đħ0 Point Y Point Z

