'ES: SPEED-TIME G

- Show an object's speed or •
- **Speed** or **velocity** on -axis •
- Time on _____-axis ٠

Label the Graphs



over time

Flat Lines

A flat line on a **position-time** graph means



A flat line on a **speed-time** graph means



Calculating Distance

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It is also possible to calculate how an object has traveled using the following equation:

Distance = Speed X TiNe



speed.

7 8 9 10



Calculating Acceleration

It is also possible to calculate an object's acceleration using the following equation:





Comparing a Position-Time Graph to a Speed-Time Graph



Interpreting a Speed-Time Graph #2



- 1. How far did the bus travel from point A to point B?
- 2. What was the bus's speed at point C?
- 3. For how many seconds did the bus decelerate?
- 4. What was the bus' acceleration from point D to point E?

Drawing a Speed-Time Graph

Maria walks at a constant speed of 6 m/s for 5 seconds. Then, she runs at a constant speed of 10 m/s for 5 seconds. **Create a speed-time graph using her data.**

