**PS Unit 7Notes Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Motion**

|  |
| --- |
| **Time** |
| **Definition:** | **Units:**  |
|  |  |

Complete one time conversion below:

|  |
| --- |
| **Distance** |
| **Definition:** | **Units:**  |
|  |  |

Complete one distance conversion below:

|  |
| --- |
| **Speed** |
| **Definition:** | **Equation:**  | **Units:**  |
|  |  |  |

Write the speed triangle below:

**Sample Speed Calculation:**

A football field is about 100 m long. If it takes a person 20 seconds to run its length, how fast (what speed) were they running?

|  |
| --- |
| Givens: |
| Equation: | Substitution: | Answer with unit: |

Why do we create graphs in science class?

*

How do we find speed on a graph?

How do you calculate slope?

|  |
| --- |
| **Acceleration** |
| **Definition:** | **Equation:**  | **Units:**  |
| Speed (m/s)Time (s) |  |  |

**Sample Acceleration Calculation:**

A car goes from 0 to 100 km/hr in 10 seconds. What is its acceleration?

|  |
| --- |
| Givens: |
| Equation: | Substitution: | Answer with unit: |

How do we find acceleration on a graph?

What do each of these graphs tell us about acceleration?